

DOLLAR GENERAL®

STORE #: 23080

**17080 LINCOLN RD
SECTION 21, T.8N, R.4E
MAPLE GROVE TOWNSHIP
SAGINAW COUNTY, MI**

**SITE DEVELOPMENT PLANS
MAY 10, 2021**

ISSUED FOR: SITE PLAN RESUBMITTAL

SHEET INDEX

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REVISIONS

No.	ISSUED FOR:	DATE:	BY:
0	SITE PLAN REVIEW	03/04/21	wlp
1	SITE PLAN RESUBMITTAL	05/10/21	wlp
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3	.	.	.
4	.	.	.
5	.	.	.

OWNERS:

BISHOP, D&M
3988 PEET
NEW LOTHROP, MI 48460

DEVELOPER:

ZAREMBA GROUP, LLC
14600 DETROIT AVE.
LAKEWOOD, OH 44107
TEL. (216) 226-5160



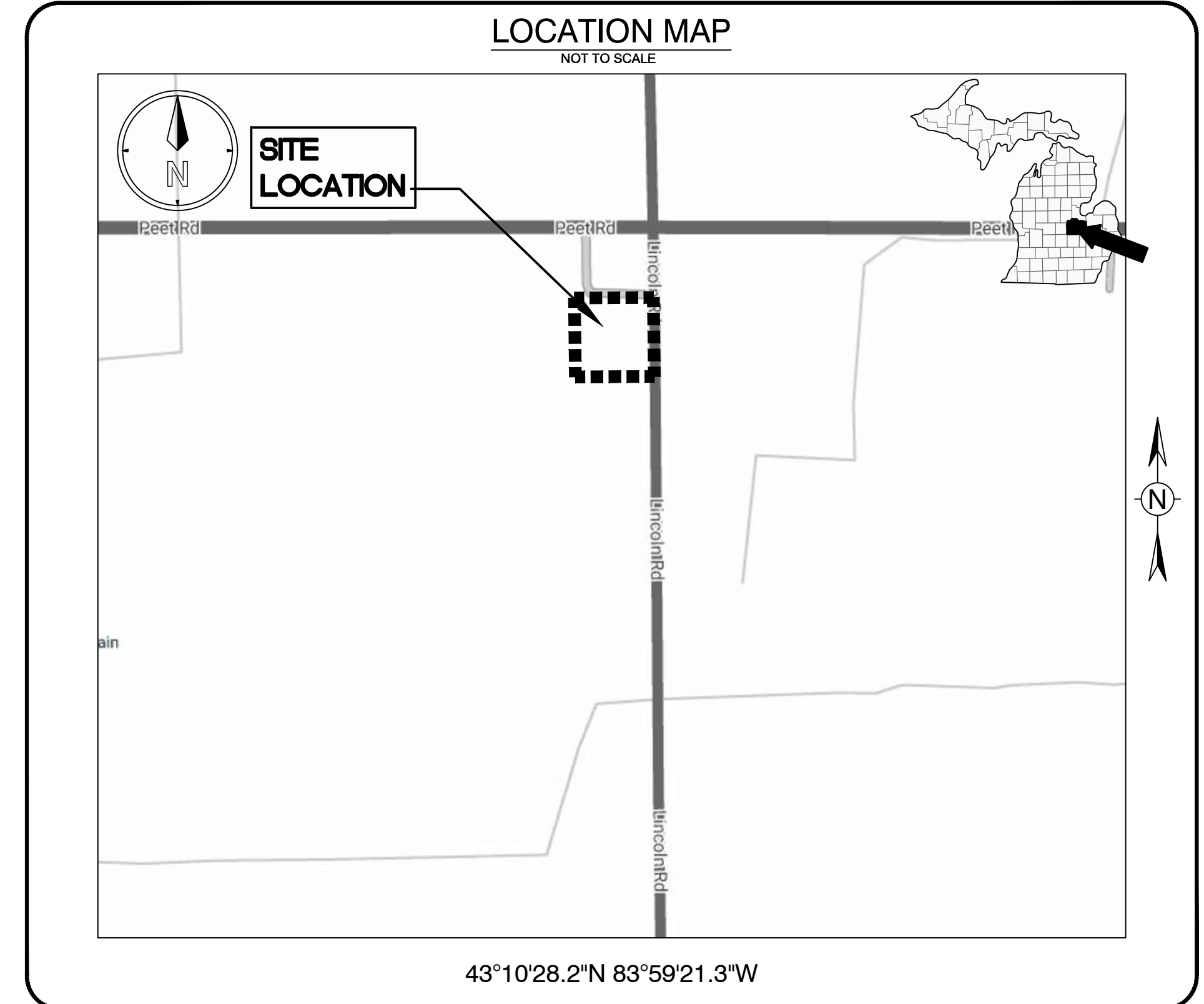
CIVIL ENGINEER:

AR ENGINEERING, LLC.
5725 VENTURE PARK DRIVE, SUITE A
KALAMAZOO, MI 49008
TEL. (269) 250-5991 FAX. (866) 569-0604



JASON RALEIGH, P.E.

DATE



LEGAL DESCRIPTION

PARCEL #: 20-09-4-21-1002-016

LAND IN THE TOWNSHIP OF MAPLE GROVE, SAGINAW COUNTY, MI, DESCRIBED AS FOLLOWS:
A PARCEL OF LAND IN THE NORTHEAST 1/4 OF SECTION 21, TOWNSHIP 8 NORTH, RANGE 4 EAST, MAPLE GROVE TOWNSHIP, SAGINAW COUNTY, MICHIGAN, DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT ON THE EAST LINE OF SAID SECTION WHICH IS 489.01 FEET, SOUTH 00 DEGREES, 00 MINUTES, 00 SECONDS WEST, FROM THE NORTHEAST CORNER OF SAID SECTION; THENCE CONTINUING SOUTH 00 DEGREES, 00 MINUTES, 00 SECONDS WEST, ON SAID EAST SECTION LINE, 175.00 FEET; THENCE NORTH 89 DEGREES, 39 MINUTES, 08 SECONDS WEST, PARALLEL WITH THE NORTH LINE OF SAID SECTION, 350.00 FEET; THENCE NORTH 00 DEGREES, 00 MINUTES, 00 SECONDS EAST, PARALLEL WITH SAID EAST SECTION LINE, 175.00 FEET; THENCE SOUTH 89 DEGREES, 39 MINUTES, 08 SECONDS EAST, PARALLEL WITH SAID NORTH SECTION LINE, 350.00 FEET TO THE POINT OF BEGINNING.

AND A PARCEL OF LAND IN THE NORTHEAST 1/4 OF SECTION 21, TOWNSHIP 9 NORTH, RANGE 4 EAST, MAPLE GROVE TOWNSHIP, SAGINAW COUNTY, MICHIGAN, DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT ON THE EAST LINE OF SAID SECTION WHICH IS 314.01 FEET, SOUTH 00 DEGREES, 00 MINUTES, 00 SECONDS WEST, FROM THE NORTHEAST CORNER OF SAID SECTION; THENCE CONTINUING SOUTH 00 DEGREES, 00 MINUTES, 00 SECONDS WEST, ON SAID EAST SECTION LINE, 175.00 FEET; THENCE NORTH 89 DEGREES, 39 MINUTES, 08 SECONDS WEST, PARALLEL WITH THE NORTH LINE OF SAID SECTION, 350.00 FEET THENCE NORTH 00 DEGREES, 00 MINUTES, 00 SECONDS EAST, PARALLEL WITH SAID EAST SECTION LINE, 175.00 FEET; THENCE SOUTH 89 DEGREES, 39 MINUTES, 08 SECONDS EAST, ON A LINE WHICH IS PARALLEL WITH AND 314.00 FEET, MEASURED AT RIGHT ANGLES, SOUTH OF SAID NORTH SECTION LINE, 350.00 FEET TO THE POINT OF BEGINNING.

UTILITY CONTACTS

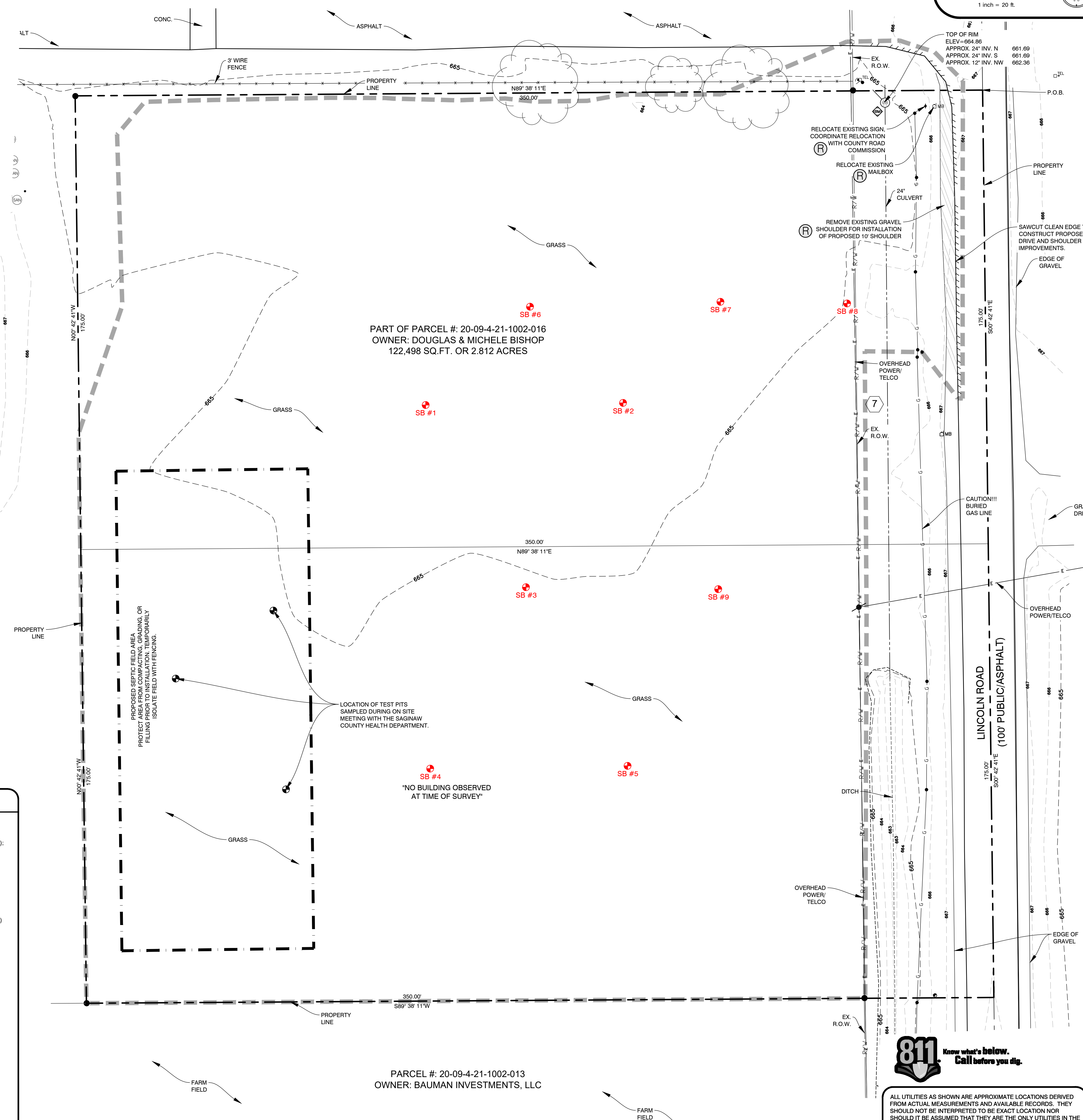
CABLE	SPECTRUM BUSINESS 5815 BAY RD SAGINAW, MI 48604 (866) 874-2389	TELEPHONE	SPECTRUM BUSINESS 5815 BAY RD SAGINAW, MI 48604 (866) 874-2389
WELL	SAGINAW COUNTY HEALTH DEPARTMENT 1600 NORTH MICHIGAN AVE SAGINAW, MI 48602 (989) 758-3800	SEPTIC	SAGINAW COUNTY HEALTH DEPARTMENT 1600 NORTH MICHIGAN AVE SAGINAW, MI 48602 (989) 758-3800
GAS	CONSUMERS ENERGY 2400 WEISS ST SAGINAW, MI 48602 (800) 477-5050	ELECTRIC	CONSUMERS ENERGY 2400 WEISS ST SAGINAW, MI 48602 (800) 477-5050
		MISS DIG	811

DEMOLITION NOTES

- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT TIME OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PERMIT COSTS, TAP FEES, METER DEPOSITS, PERMANENT UTILITY APPLICATIONS, BONDS, AND OTHER FEES REQUIRED FOR PROPOSED WORK. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO THOSE REQUIRED BY MAPLE GROVE TOWNSHIP AND SAGINAW COUNTY.
- CONTACT MISS DIG "811" FOR LOCATION OF UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING EXCAVATION WORK. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO ARE NOT PART OF THE "MISS DIG" ALERT SYSTEM. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- DEMOLISH & REMOVE ALL EXISTING SITE FEATURES AS REQUIRED.
- ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO DEMOLITION.
- ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND GEOTECHNICAL REPORT FOR THIS SITE BY TTL ASSOCIATES INC.
- ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID TRACKING SOIL ONTO ADJACENT ROADWAYS. CONTRACTOR SHALL SWEEP IMMEDIATELY IF OCCURS.
- ANY DISTURBED AREA WHICH WILL BE LEFT UNWORKED 15 DAYS OR LONGER MUST BE SEEDED TO ESTABLISH VEGETATION FOR TEMPORARY STABILIZATION. BASINS TO BE SEEDED AND MULCH BLANKETS APPLIED IMMEDIATELY TO PROVIDE A STABLE BASE AND AVOID EXCESSIVE EROSION.
- REVIEW ALL THE REMOVALS AND PROTECTION WITH OWNER PRIOR TO COMMENCING CONSTRUCTION. INSTALL TEMPORARY SNOW FENCE AROUND ALL TREES REQUIRING PROTECTION. SNOW FENCE SHALL BE PLACED AT EDGE OF DRIP LINE.
- SAWCUT ALL CURB, SIDEWALK, AND PAVEMENTS PRIOR TO REMOVAL. ADDITIONAL SAWCUT MAY BE NECESSARY PRIOR TO REPLACEMENT TO ENSURE CLEAN EDGE.
- ALL REMOVALS SHALL BE TAKEN OFF-SITE AND DISPOSED OF PROPERLY. NO STOCKPILE OR BURNING OF DEBRIS IS ALLOWED.
- ALL REMOVALS SHALL BE TO THE LIMITS INDICATED ABOVE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. UNAUTHORIZED REMOVALS AND SUBSEQUENT REPLACEMENT SHALL BE AT THE CONTRACTOR'S EXPENSE.
- REMOVE, STORE, AND RESET ANY EXISTING SIGNS AS DIRECTED BY THE ENGINEER/OWNER.
- REMOVE ALL TREES TO THE CLEARING LIMITS AS SHOWN. REMOVE ALL EXISTING TREES, STUMPS AND BRUSH FROM THE SITE AS NECESSARY TO CONSTRUCT THE IMPROVEMENTS.
- BACKFILL EXCAVATED AREAS WITH CLEAN GRANULAR FILL COMPACTED TO 95% OF THE MATERIAL UNIT WEIGHT BY MODIFIED PROCTOR.
- CONTROL SHALL BE MAINTAINED OVER THE SITE AND OPERATION TO ELIMINATE HAZARDS TO THE PUBLIC. NAILS OR OTHER TIRE PUNCTURING ITEMS SHALL NOT BE DROPPED ON STREETS, ALLEYS AND ADJACENT PROPERTY. PUBLIC STREETS, CURBS AND SIDEWALKS SHALL BE PROTECTED FROM DAMAGE. THE PERSON ENGAGED IN THE DEMOLITION WORK SHALL BE LIABLE FOR ANY AND ALL DAMAGE TO CURBS, STREETS, SIDEWALKS AND OTHER PUBLIC OR PRIVATE PROPERTY AND FOR ANY BODILY INJURY OCCURRING AS A RESULT OF THE DEMOLITION WORK.

LEGEND

- PAVEMENT REMOVAL
- GRAVEL REMOVAL
- SAWCUT
- REMOVE
- PROTECT
- LIMITS OF CONSTRUCTION



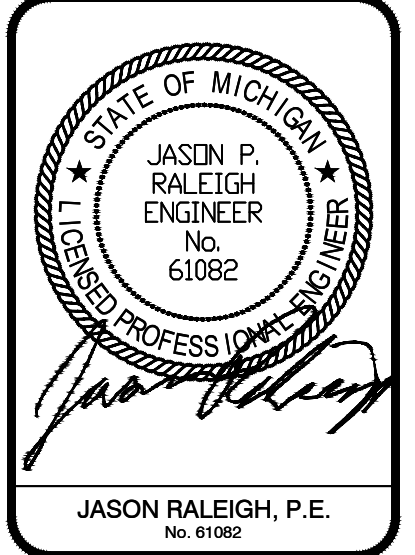
SOIL BORINGS - REFER TO GEOTECHNICAL REPORT BY TTL ASSOCIATES, INC. DATED FEBRUARY 9, 2021

<p>SOIL BORING [SB #1] WATER ENCOUNTERED: NONE 0.0' - 2.0' LEAN CLAY 2.0' - 4.8' SANDY CLAY 4.8' - 10.0' CLAYEY SAND 10.0' - 18.5' SILTY SAND 18.5' - 20.0' CLAYEY SAND END OF BORING</p>	<p>MOIST MEDIUM STIFF BROWN LEAN CLAY W/ SAND AND TRACE GRAVEL (CL) MOIST MEDIUM STIFF TO STIFF BROWN SANDY LEAN CLAY W/TRACE GRAVEL AND IRON OXIDE STAIN SEAM (CL) MOIST VERY DENSE GRAY/BROWN CLAYEY SAND W/TRACE SHALE FRAGMENTS (CL); @ 8.5': BROWN, W/TRACE GRAVEL MOIST DENSE GRAY SILTY SAND (SM) MOIST VERY DENSE GRAY CLAYEY SAND (SC)</p>
<p>SOIL BORING [SB #2] WATER ENCOUNTERED: NONE 0.0' - 4.0' LEAN CLAY 4.0' - 6.0' SANDY CLAY 6.0' - 8.5' CLAYEY SAND 8.5' - 20.0' SILTY SAND END OF BORING</p>	<p>MOIST SOFT TO MEDIUM STIFF BROWN/GRAY LEAN CLAY W/ SAND (CL) MOIST MEDIUM STIFF BROWN/GRAY SANDY LEAN CLAY (CL) MOIST STIFF TO VERY STIFF GRAY SANDY LEAN CLAY (CL) MOIST DENSE GRAY CLAYEY SAND (SC); @11': VERY DENSE; @18.5': DENSE</p>
<p>SOIL BORING [SB #3] WATER ENCOUNTERED: @ 8.6' 0.0' - 3.5' LEAN CLAY 3.5' - 8.5' CLAYEY SAND 8.5' - 13.5' SANDY CLAY 13.5' - 18.5' CLAYEY SAND 18.5' - 20.0' SANDY CLAY END OF BORING</p>	<p>MOIST STIFF GRAY/BROWN LEAN CLAY W/SAND (CL) MOIST LOOSE GRAY/BROWN CLAYEY SAND W/TRACE GRAVEL AND IRON OXIDE STAIN SEAM (SC); @6': BROWN/GRAY MOIST HARD BROWN/GRAY SANDY LEAN CLAY W/TRACE GRAVEL (CL) MOIST DENSE GRAY CLAYEY SAND (SC) MOIST HARD GRAY SANDY LEAN CLAY (CL)</p>
<p>SOIL BORING [SB #4] WATER ENCOUNTERED: NONE 0.0' - 2.0' LEAN CLAY 2.0' - 5.5' LEAN CLAY 5.5' - 8.5' SANDY CLAY 8.5' - 15.0' CLAYEY SAND 15.0' - 20.0' CLAYEY SAND END OF BORING</p>	<p>MOIST SOFT TO MEDIUM STIFF BROWN/GRAY LEAN CLAY W/SAND (CL) MOIST MEDIUM STIFF GRAY/BROWN LEAN CLAY W/SAND AND TRACE GRAVEL (CL) MOIST VERY STIFF GRAY SANDY LEAN CLAY (CL) MOIST MEDIUM DENSE GRAY CLAYEY SAND (SC) MOIST VERY DENSE GRAY CLAYEY SAND (SC)</p>
<p>SOIL BORING [SB #5] WATER ENCOUNTERED: @ 5.5' 0.0' - 5.0' SANDY CLAY 5.0' - 13.5' SILTY SAND 13.5' - 18.5' SILTY SAND 18.5' - 20.0' CLAYEY SAND END OF BORING</p>	<p>MOIST MEDIUM STIFF GRAY/BROWN SANDY LEAN CLAY (CL); @3.5': BROWN/GRAY, W/TRACE GRAVEL MOIST MEDIUM DENSE BROWN/GRAY SILTY SAND (SM) MOIST LOOSE BROWN/GRAY SILTY SAND (SM) MOIST MEDIUM DENSE GRAY CLAYEY SAND (SC)</p>
<p>SOIL BORING [SB #6] WATER ENCOUNTERED: NONE 0.0' - 2.5' LEAN CLAY 2.5' - 5.5' SANDY CLAY 5.5' - 8.5' SILTY SAND 8.5' - 10.0' CLAYEY SAND END OF BORING</p>	<p>MOIST SOFT TO MEDIUM STIFF GRAY/BROWN LEAN CLAY W/SAND AND TRACE IRON OXIDE STAIN SEAM (CL) MOIST MEDIUM STIFF BROWN/GRAY SANDY LEAN CLAY (CL) MOIST DENSE BROWN SILTY SAND (SM) MOIST VERY DENSE BROWN/GRAY CLAYEY SAND (SC)</p>
<p>SOIL BORING [SB #7] WATER ENCOUNTERED: NONE 0.0' - 2.0' LEAN CLAY 2.0' - 5.0' SANDY CLAY 5.0' - 8.0' CLAYEY SAND 8.0' - 10.0' CLAYEY SAND END OF BORING</p>	<p>MOIST MEDIUM STIFF BROWN/GRAY LEAN CLAY W/SAND AND TRACE ORGANICS (CL) (ORGANICS IN SAMPLE SS-1 = 3.4%) MOIST STIFF BROWN SANDY LEAN CLAY W/TRACE GRAVEL (CL) MOIST MEDIUM DENSE GRAY CLAYEY SAND (SC) MOIST VERY DENSE BROWN/GRAY CLAYEY SAND (SC)</p>
<p>SOIL BORING [SB #8] WATER ENCOUNTERED: NONE 0.0' - 2.0' LEAN CLAY 2.0' - 5.5' SANDY CLAY 5.5' - 10.0' CLAYEY SAND END OF BORING</p>	<p>MOIST SOFT GRAY/BROWN LEAN CLAY W/SAND (CL) MOIST MEDIUM STIFF BROWN/GRAY SANDY LEAN CLAY W/TRACE GRAVEL (CL) MOIST DENSE GRAY CLAYEY SAND (SC)</p>

PLANS PREPARED BY:



DRAWN: sw
CHECKED: WLP



NO.	ISSUED FOR:	DATE	BY
0	SITE PLAN REVIEW	03/04/21	wlp
1	SITE PLAN RESUBMITTAL	05/10/21	wlp
2			
3			
4			

EXISTING CONDITIONS - DEMO PLAN
LOTHROP DOLLAR GENERAL
ZAREMBA GROUP, LLC

JOB NUMBER
2012059
DATE
05/10/2021

SHEET NUMBER
C1.0



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SITE DATA

- PROPERTY INFORMATION:**
 PARCEL #S: 20-09-4-21-1002-016
 SITE AREA: 122,498 SF (2.8AC)
 OWNER: DOUGLAS & MICHELE BISHOP
 3968 PEET
 NEW LOPTHROP, MI 48460
 DEVELOPER: ZAREMBA GROUP
 MARK ZAWADSKI, MANAGER
 14600 DETROIT AVE, SUITE 1500
 LAKEWOOD, OH 44107
 PHONE: (216) 226-2124
 FAX: (216) 221-1031
- ZONING:**
 PROPERTY CURRENTLY ZONED:
 B-2 COMMUNITY COMMERCIAL &
 B-1 NEIGHBORHOOD COMMERCIAL
 ABUTTING PROPERTY CURRENTLY ZONED:
 NORTH: B-2
 SOUTH: B-1 NEIGHBORHOOD COMMERCIAL
 EAST: B-1 NEIGHBORHOOD COMMERCIAL
 WEST: R-1A TRANSITIONAL
 PROPOSED LAND USE = RETAIL STORE
- SETBACKS**
 FRONT = 25'
 SIDES = N/A (UNLESS ABUTTING RESIDENTIAL)
 REAR = 20'
- PARKING:**
 REQUIRED = (1) PARKING SPACE PER (150) SF. OF PUBLIC AREA
 8,513 SF / 150 = 57
 PROVIDED = STANDARD 9'X20' SPACES = 33
 BARRIER FREE SPACES = 2
 TOTAL PROVIDED = 35*
 * PARKING REDUCTION VARIANCE OBTAINED ON 04/21/21
- BUILDING:**
 SINGLE-STORY (18)
 MAXIMUM HEIGHT: 40' (3 STORIES)
 TOTAL AREA OF 10,640 SFT. (SEE FLOOR PLAN AND ELEVATIONS FOR MORE DETAIL.)
 PROPOSED BUILDING COVERAGE: 9%
 MAXIMUM BUILDING COVERAGE: 40% IN B-1; 50% IN B-2
- LOT:**
 MINIMUM LOT SIZE: 12,500 SFT
 MINIMUM LOT WIDTH: 100 FT
 LOT SIZE: 122,498 SFT / 2.80 ACRES
 LOT DIMENSIONS: 350 x 350'
- LANDSCAPING:**
 SHALL BE IN ACCORDANCE WITH LANDSCAPING PLAN.
- STORM WATER DETENTION REQUIRED:**
 STORM WATER MANAGEMENT SHALL BE IN ACCORDANCE WITH COUNTY STORM WATER GUIDELINES.




SITE PLAN NOTES

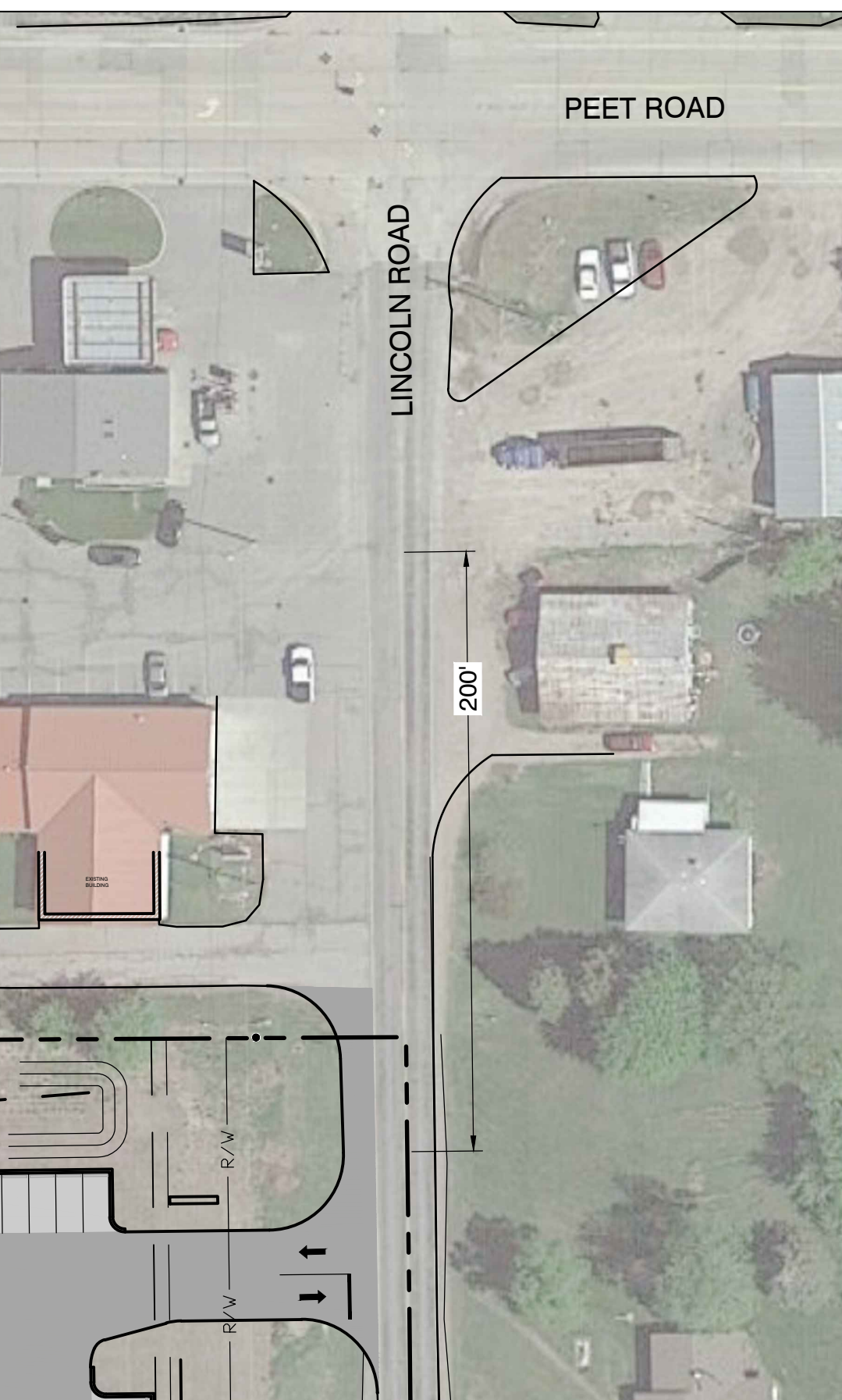
- | | |
|--|---|
| A BITUMINOUS PAVEMENT (SEE DETAIL SHEET). | M LIGHT POLE (SEE L2.0 PHOTOMETRIC SHEET) |
| B [50' x 18'] - 6" CONCRETE PAD/LOADING AREA. (SEE DETAIL SHEET) | N DELIVERY RAMP (SEE DETAIL SHEET) |
| C 18' X 12' (MIN.) - 6" CONCRETE DUMPSTER PAD (PROVIDE 18' X 12' DUMPSTER ENCLOSURE. AREA FOR (2) STD DUMPSTERS (SEE DETAIL SHEET). | O PROVIDE CONCRETE WHEEL STOPS (SEE DETAIL SHEET) |
| D PROPOSED HVAC CONDENSERS LOCATED ON THE ROOF. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. | P PROPOSED VEGETATIVE SWALE SLOPED TO PROPOSED DETENTION BASIN |
| E INTEGRAL CURB/WALK (SEE DETAIL SHEET). | Q PROPOSED WELL (SEE SHEET C3.0) |
| F AT-GRADE RAMP (SEE GRADING PLAN). | R ASPHALT VALLEY GUTTER (SEE DETAIL SHEET) |
| G PROPOSED LIGHTED PYLON SIGN W/ UNDERGROUND ELECTRICAL. | S 4' WIDE CONCRETE SPILLWAY WITH RIPRAP |
| H PROPOSED BUILDING SIGN. | T 60' x 10' TRAILER LOADING SPACE |
| I BOLLARDS - (4) TOTAL | U 25' x 10' TRUCK LOADING SPACE |
| J DOWNSPOUT (TYP.) | V LOCATION OF RELOCATED MAILBOX |
| K PAINT/ STRIPING (SEE DETAIL SHEET) | W LOCATION OF RELOCATED "PARK N RIDE" SIGN. CONTRACTOR TO COORDINATE RELOCATION WITH COUNTY ROAD COMMISSION. |
| L 4" PAINTED PARKING LOT MARKING/ STRIPING (TYP.) | |

GENERAL NOTES

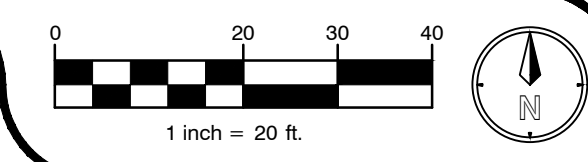
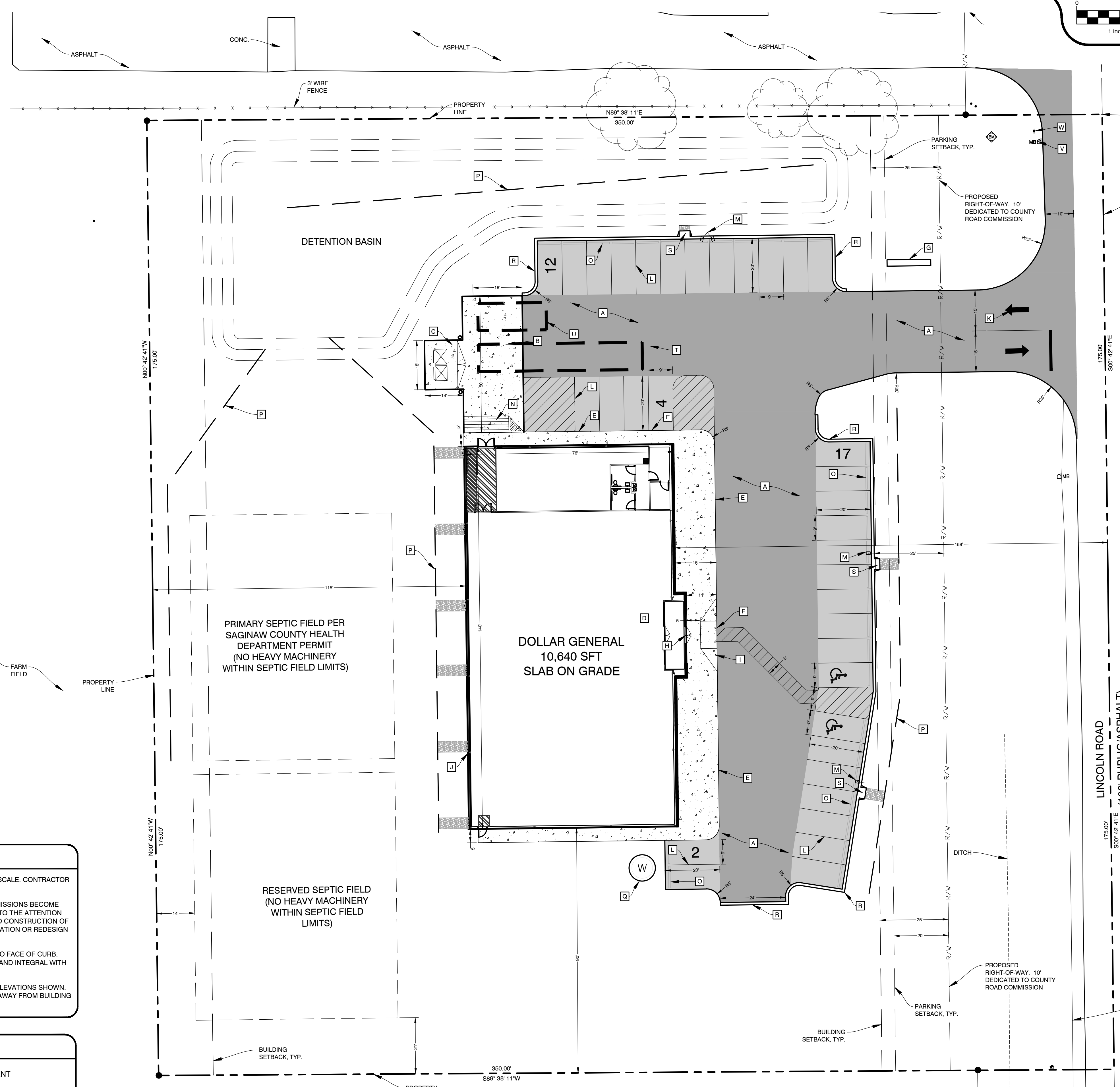
- DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- ALL CURB RADII AND DIMENSIONS ARE TO FACE OF CURB. CURBS TO BE PROVIDED WHERE SHOWN AND INTEGRAL WITH SIDEWALK AT PAVING EDGE.
- SLOPE GRADES UNIFORMLY BETWEEN ELEVATIONS SHOWN. NOMINAL GRADING, SLOPE SIDEWALKS AWAY FROM BUILDING AT 1/4" PER FOOT ON ENTRY WALK.

LEGEND

-  HEAVY DUTY PAVEMENT (SEE DETAIL ON C5.0)
-  LIGHT DUTY PAVEMENT (SEE DETAIL ON C5.0)
-  CONCRETE PAVEMENT AND SIDEWALK (SEE DETAIL ON C5.0)



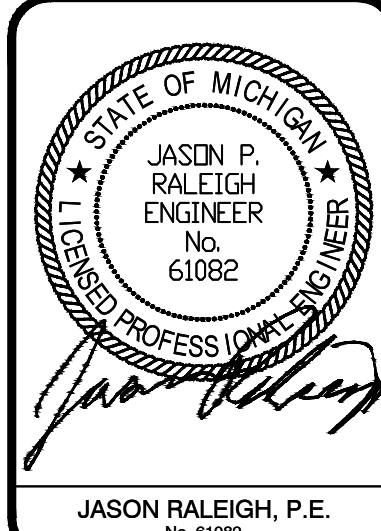
PROPOSED DRIVEWAY LOCATION
C2.0 1 INCH = 50 FEET



PLANS PREPARED BY:



DRAWN: **sw**
 CHECKED: **WLP**



JASON RALEIGH, P.E.
No. 61082

ISSUED FOR:	DATE	BY
SITE PLAN REVIEW	03/04/21	W/P
SITE PLAN RESUBMITTAL	05/10/21	W/P

SITE LAYOUT
LOTHROP DOLLAR GENERAL
ZAREMBA GROUP, LLC

JOB NUMBER
2012059
 DATE
05/10/2021

SHEET NUMBER
C2.0



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SITE MATERIALS & CONSTRUCTION NOTES

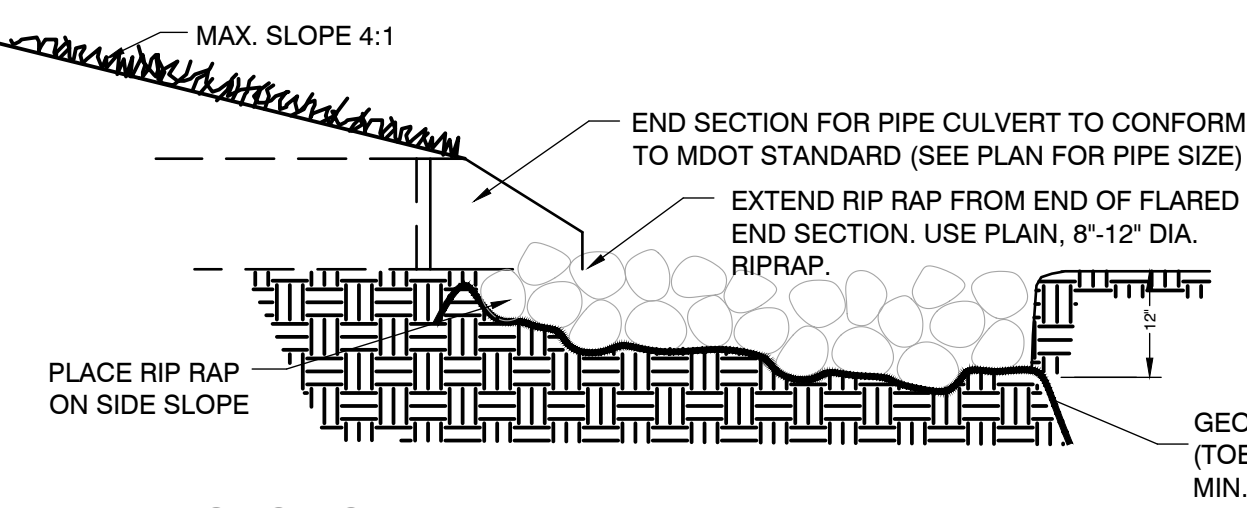
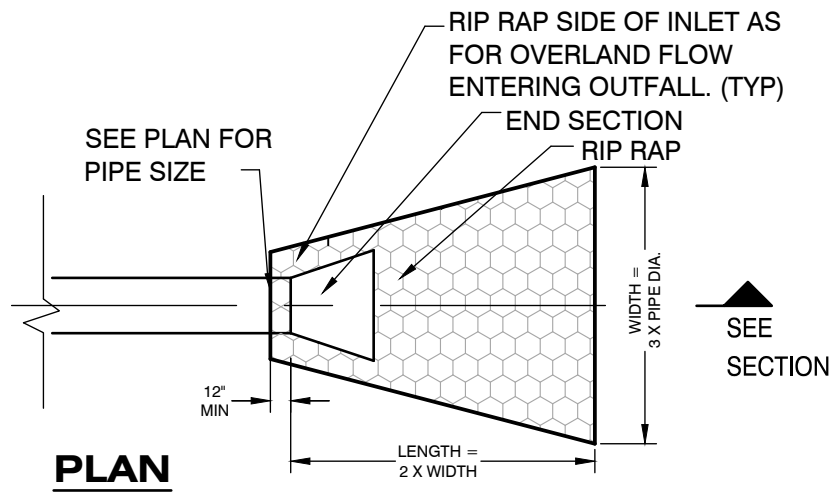
- SOILS EXPOSED IN THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGES IN CONDITION SUCH AS FROM DISTURBANCE, RAIN AND FREEZING. SURFACE RUN-OFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATION AND NOT ALLOWED TO POND. IF POSSIBLE, ALL FOOTING CONCRETE SHOULD BE POURED THE SAME DAY THE EXCAVATION IS MADE. IF THIS IS NOT PRACTICAL, THE FOOTING EXCAVATIONS SHOULD BE ADEQUATELY PROTECTED.
- REMOVE ALL SUBGRADE GRADE MATERIAL THAT MAY BE SOFTENED BY RAINS, FREEZING, OR CONSTRUCTION TRAFFIC, ETC. AND REPLACE WITH COMPACTED GRANULAR FILL.
- STORM SEWER SHALL BE CORRUGATED HDPE PIPE WITH SMOOTH INTERIOR WALL, BY ADS OR EQUAL. LEACHING BASINS AND MANHOLES ARE TO BE REINFORCED CONCRETE WITH RIM AND SLOTTED GRATING (AS SHOWN). STORM SEWER & LEACHING BASINS ARE TO BE WRAPPED WITH FILTER FABRIC.
- SANITARY SEWER PIPE MAY BE PVC SDR 3034 MATERIAL.
- ALL WATER SERVICE LINES SHALL BE 1" PE PIPE WITHIN 5' OF BUILDING, WITH COMPRESSION FITTINGS OR MECHANICAL FITTINGS OTHER THAN FLARED ENDS. PROVIDE 5' COVER FROM FINISHED GRADE.
- PROVIDE MINIMUM 5' COVER FROM FINISHED GRADE FOR ALL WATER SERVICE LINES, IF COVER CANNOT BE MAINTAINED DUE TO SITE CONDITIONS OR INVERT ELEVATIONS THE ENTIRE LENGTH OF THE EXTERIOR PIPE MUST BE PROTECTED WITH 2" RIGID INSULATION BOARD ON THE TOP AND SIDES.
- PROVIDE MINIMUM 5' COVER FROM FINISHED GRADE FOR ALL SANITARY SEWER LINES, IF COVER CANNOT BE MAINTAINED DUE TO SITE CONDITIONS OR INVERT ELEVATIONS THE ENTIRE LENGTH OF THE EXTERIOR PIPE MUST BE PROTECTED WITH 2" RIGID INSULATION BOARD ON THE TOP AND SIDES.
- MAINTAIN 10 FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN THE SEWER AND WATER MAIN UTILITIES. PROVIDE 18" MINIMUM VERTICAL SEPARATION WHERE UTILITIES CROSS.
- THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
- EXTERIOR CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AND SHALL HAVE LIMESTONE AGGREGATE AND SHALL HAVE 4 - 6 % AIR ENTRAINMENT WITH A BROOM FINISH.
- EXPANSION JOINTS IN CONCRETE PAVEMENT AND WALLS SHALL BE 1/2" ASPHALT IMPREGNATED FULL DEPTH 40" O.C. MAXIMUM & AT SIDEWALK INTERSECTIONS. CRACK CONTROL SCORING AT SIDEWALK WIDTH DIMENSION AND @ 10'-0" O.C. IN DRIVES.

GENERAL NOTES

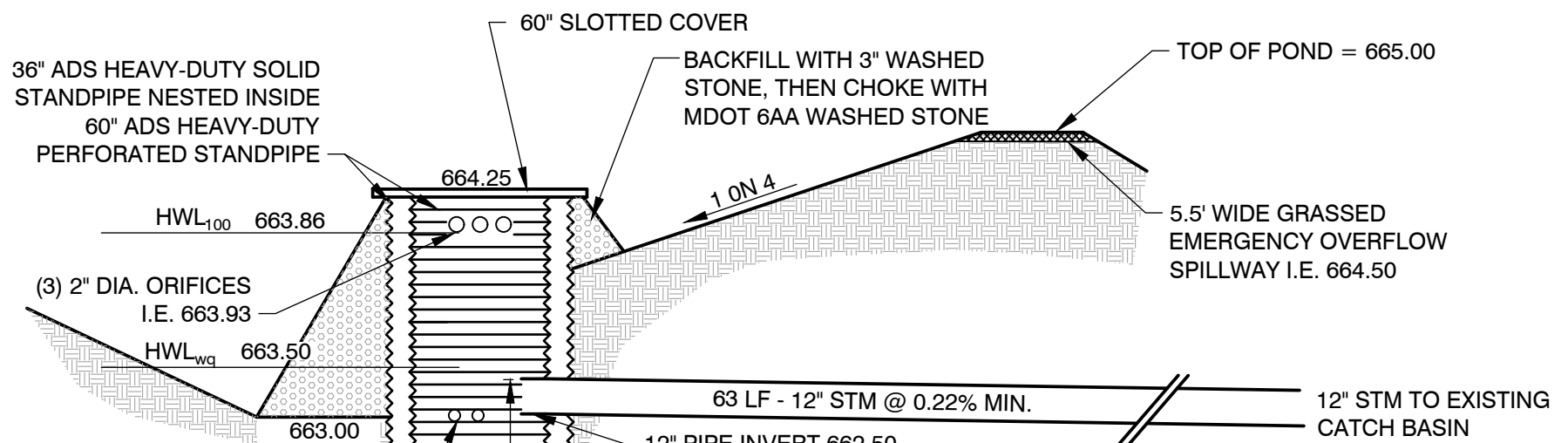
- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT TIME OF CONSTRUCTION.
- ELECTRICAL WORK SHALL BE PERFORMED BY A STATE OF MICHIGAN LICENSED ELECTRICIAN ACCORDING TO THE N.E.P.A. NATIONAL ELECTRICAL CODE AS MODIFIED BY THE STATE OF MICHIGAN. FURNISH AND INSTALL ALL MATERIALS AND LABOR TO PROVIDE A COMPLETE WORKING SYSTEM.
- ALL PLUMBING WORK SHALL BE PERFORMED BY A STATE OF MICHIGAN LICENSED PLUMBER ACCORDING TO THE INTERNATIONAL PLUMBING CODE AS MODIFIED BY THE STATE OF MICHIGAN AND LOCAL HEALTH DEPARTMENT. FURNISH AND INSTALL ALL MATERIALS AND LABOR TO PROVIDE A FULL WORKING SYSTEM.
- ALL MECHANICAL WORK SHALL BE PERFORMED ACCORDING TO THE INTERNATIONAL MECHANICAL CODE AS MODIFIED BY THE STATE OF MICHIGAN AND THE MICHIGAN ENERGY CODE. FURNISH AND INSTALL ALL MATERIALS AND LABOR TO PROVIDE A FULL WORKING SYSTEM.
- ALL WORK SHALL CONFORM TO THE MICHIGAN HANDICAPPED ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT.
- WATER SERVICE PRESSURE TESTING AND CHLORINATION SHALL BE PER EGGLE AND THE MAPLE GROVE TOWNSHIP REQUIREMENTS.
- SANITARY SEWER INSTALLATION AND TESTING MUST MEET THE REQUIREMENTS OF THE MAPLE GROVE TOWNSHIP AND THE EGLE.
- ALL REGULATORY SIGNAGE (IF SPECIFIED) SHALL BE PER THE MICHIGAN DEPARTMENT OF TRANSPORTATION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PERMIT COSTS, TAP FEES, METER DEPOSITS, PERMANENT UTILITY APPLICATIONS, BONDS, AND OTHER FEES REQUIRED FOR PROPOSED WORK.
- CONTACT MISS DIG '911' FOR LOCATION OF UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING EXCAVATION WORK. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO ARE NOT PART OF THE 'MISS DIG' ALERT SYSTEM. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- ANY SANITARY SEWER, SANITARY SEWER SERVICE LEADS, WATER MAIN, WATER SERVICES, OR STORM SEWER WHICH IS DAMAGED BY THE CONTRACTOR DURING HIS OPERATIONS SHALL BE REPAIRED TO THE OWNERS SATISFACTION, AND AT THE CONTRACTOR'S EXPENSE. IF ANY ELEMENTS OF THE SANITARY SEWER SYSTEM ARE DAMAGED AND NEED REPAIRED, IT MUST MEET THE MAPLE GROVE TOWNSHIP SPECIFICATIONS.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE ELECTRICAL TRANSFORMER PAD PER THE UTILITY COMPANY SPECIFICATIONS.
- THE TELEPHONE UTILITY COMPANY SHALL PROVIDE UNDERGROUND TELEPHONE TO THE BUILDING AT THE OWNERS EXPENSE.
- REFER TO ELECTRICAL DRAWINGS FOR UNDERGROUND ELECTRICAL REQUIREMENTS FOR SITE LIGHTING & SITE DETAILS SHEETS FOR THE FIXTURE AND POLE SPECIFICATIONS.
- DESIGN, INSTALLATION AND SPECIFICATION FOR IMPROVEMENTS RELATED TO GAS, TELEPHONE, ELECTRIC AND CABLE TELEVISION SERVICES SHALL BE COORDINATED BY THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE TELEPHONE, ELECTRIC, AND CABLE TELEVISION CONDUITS WITH THE APPROPRIATE UTILITY PRIOR TO PAVEMENT INSTALLATION.
- CONTRACTOR IS TO UNCOVER AND CONFIRM ALL TAP LOCATIONS. LOCATION DISCREPANCIES ARE TO BE BROUGHT TO THE ENGINEERS ATTENTION FOR RESOLUTION.
- THE CONTRACTOR IS TO PROVIDE THE WATER SERVICE PIPING FROM THE BUILDING TO THE PROPOSED WELL. THE CONTRACTOR SHALL MAKE THE CONNECTION TO THE SHUT OFF VALVE, THE CONTRACTOR SHALL COORDINATE SERVICES WITH THE WELL DRILLER.
- CONTRACTOR/OWNER SHALL OBTAIN UTILITY CONNECTION PERMITS AND SETTLE APPLICABLE UTILITY ASSESSMENTS PRIOR TO EXTENSION OF PUBLIC UTILITIES ONSITE.
- MANHOLE AND CATCH BASIN STRUCTURES SHALL BE PRECAST AND HAVE A MAXIMUM OF 2 ADJUSTING RINGS FOR FINISH GRADE ADJUSTMENT. STORM STRUCTURES MUST ALL HAVE A SUMP OF TWO FEET.
- ALL WATER MAIN TO HAVE A BURIAL DEPTH AS REQUIRED BY THE EGLE FOR THE SPECIFIC REGION OF WORK IN MAPLE GROVE TOWNSHIP.
- DEMOLISH & REMOVE ALL EXISTING SITE FEATURES AS REQUIRED.
- THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT PREPARED BY TTL ASSOCIATES INC..
- DRIVEWAY LAYOUT AND CONNECTION TO LINCOLN RD SHALL COMPLY WITH ALL ASPECTS OF THE SAGINAW COUNTY ROAD COMMISSION DRIVE PERMIT.

UTILITY PLAN NOTES

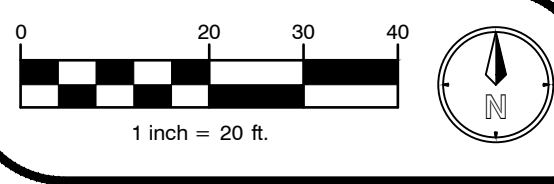
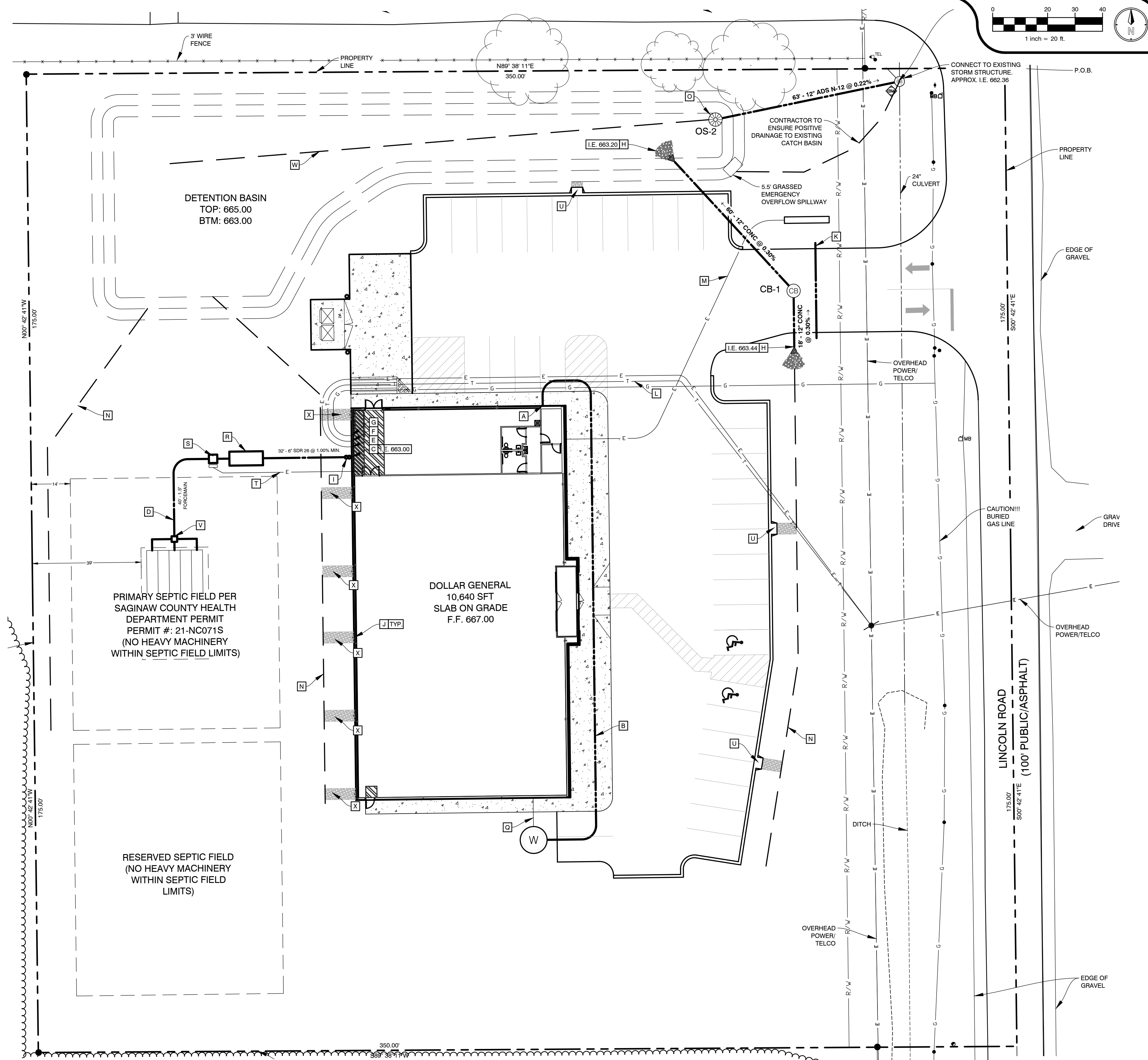
- | | |
|--|---|
| A WATER SERVICE: COORDINATE CONNECTION WITH PLUMBING PLANS. | N PROPOSED VEGETATIVE SWALE SLOPED TO PROPOSED DETENTION BASIN |
| B 200 LF - 1" PE WATER SERVICE, CONNECT TO PROPOSED WELL. COORDINATE WITH ARCH PLANS AND WELL DRILLER. | O SLOW-RELEASE / OVERFLOW STRUCTURE. (SEE DETAIL THIS SHEET) |
| C SEWER LATERAL: COORDINATE CONNECTION WITH PLUMBING PLANS. | P STORM CLEAN OUT |
| D CONNECT TO PROPOSED SEPTIC SYSTEM. COORDINATE WITH SAGINAW COUNTY HEALTH DEPARTMENT | Q U/G ELECTRIC FOR PROPOSED WELL |
| E (2) 4" CONDUITS FOR ELECTRIC SERVICE. | R 1,250 GAL SEPTIC TANK, DUAL COMPARTMENT WITH EFFLUENT FILTER. COORDINATE WITH COUNTY HEALTH DEPARTMENT. |
| F (1) 4" CONDUIT FOR TELEPHONE SERVICE. | S 500 GAL. DOSING TANK WITH LIBERTY SIMPLEX PUMP AND ALARM PANEL OR APPROVED EQUAL. |
| G U/G GAS SERVICE. | T U/G ELECTRIC TO PUMP |
| H 12" FLARED END SECTION WITH RIP RAP AND REFUSE SCREEN. (SEE DETAIL THIS SHEET) | U 4" WIDE CONCRETE SPILLWAY WITH RIPRAP TO PROPOSED SWALE/TOP OF DETENTION BASIN |
| L TWO-WAY YARD CLEANOUT | V CONCRETE DISTRIBUTION BOX WITH INLET TEE BAFFLE DIRECTING FLOW DOWNWARD WITH OPEN TEE AT TOP |
| J DOWNSPOUT (TYP) WITH SPLASH BLOCK AT EACH. | W DETENTION BASIN BOTTOM SLOPED AT 0.25% TO PROPOSED OVERFLOW STRUCTURE |
| K 3" PVC CONDUIT FOR IRRIGATION LINE | X PROVIDE 7 SYD (6" - 8" DIA.) OF PLAIN RIPRAP FROM EACH DOWNSPOUT TO BOTTOM OF SWALE. PLACE GEOTEXTILE FABRIC UNDER RIP RAP AND TOE IN EDGES. |
| L 2" IRRIGATION PIPE SLEEVE FOR TELEPHONE SERVICE WITH PULL STRING. PLACE STAKE AT END OF PIPE IN R.O.W. AND MARK AS "TELEPHONE". TIE PULL STRING AROUND STAKE. | |
| M CONDUIT FOR ELECTRIC TO SIGN. | |



PIPE CULVERT WITH FLARED END SECTION DETAIL
C3.0 - 050002 NOT TO SCALE



OS-2 SLOW RELEASE OVERFLOW DETAIL
C3.0 NOT TO SCALE



CONNECT TO EXISTING STORM STRUCTURE APPROX. I.E. 662.96
P.O.B.
PROPERTY LINE
EDGE OF GRAVEL
GRAV DRIVE
OVERHEAD POWER/TELCO
CAUTION!! BURIED GAS LINE
OVERHEAD POWER/TELCO
LINCOLN ROAD (100' PUBLIC/ASPHALT)
175.00' 300' 42' 41E
175.00' 300' 42' 41E
EDGE OF GRAVEL

STORM STRUCTURE
CB-1, 2' DIA. EJIW 5105
RIM = 665.88
12" CONG S 663.38
12" CONG N 663.38

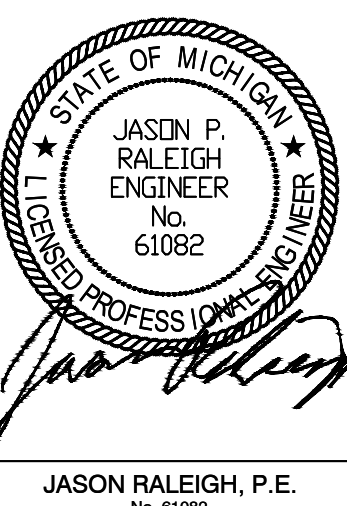


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PLANS PREPARED BY:



DRAWN: sw
CHECKED: WLP



JASON RALEIGH, P.E.
No. 61082

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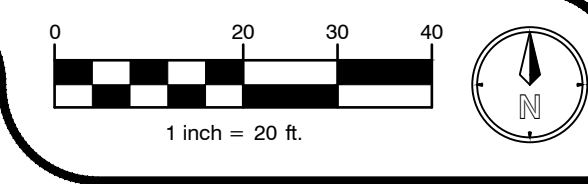
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UTILITY PLAN
LOTHROP DOLLAR GENERAL
ZAREMBA GROUP, LLC

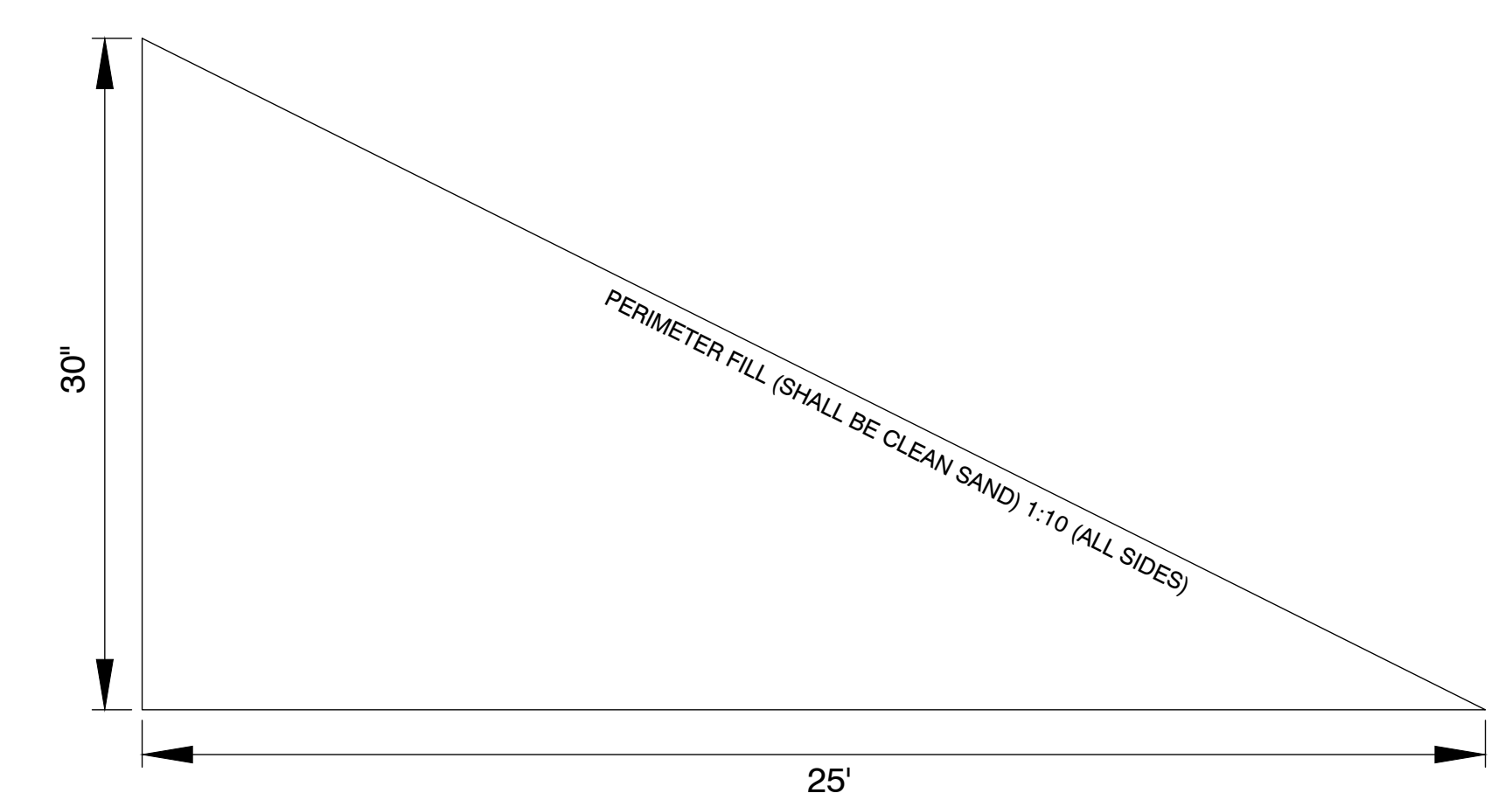
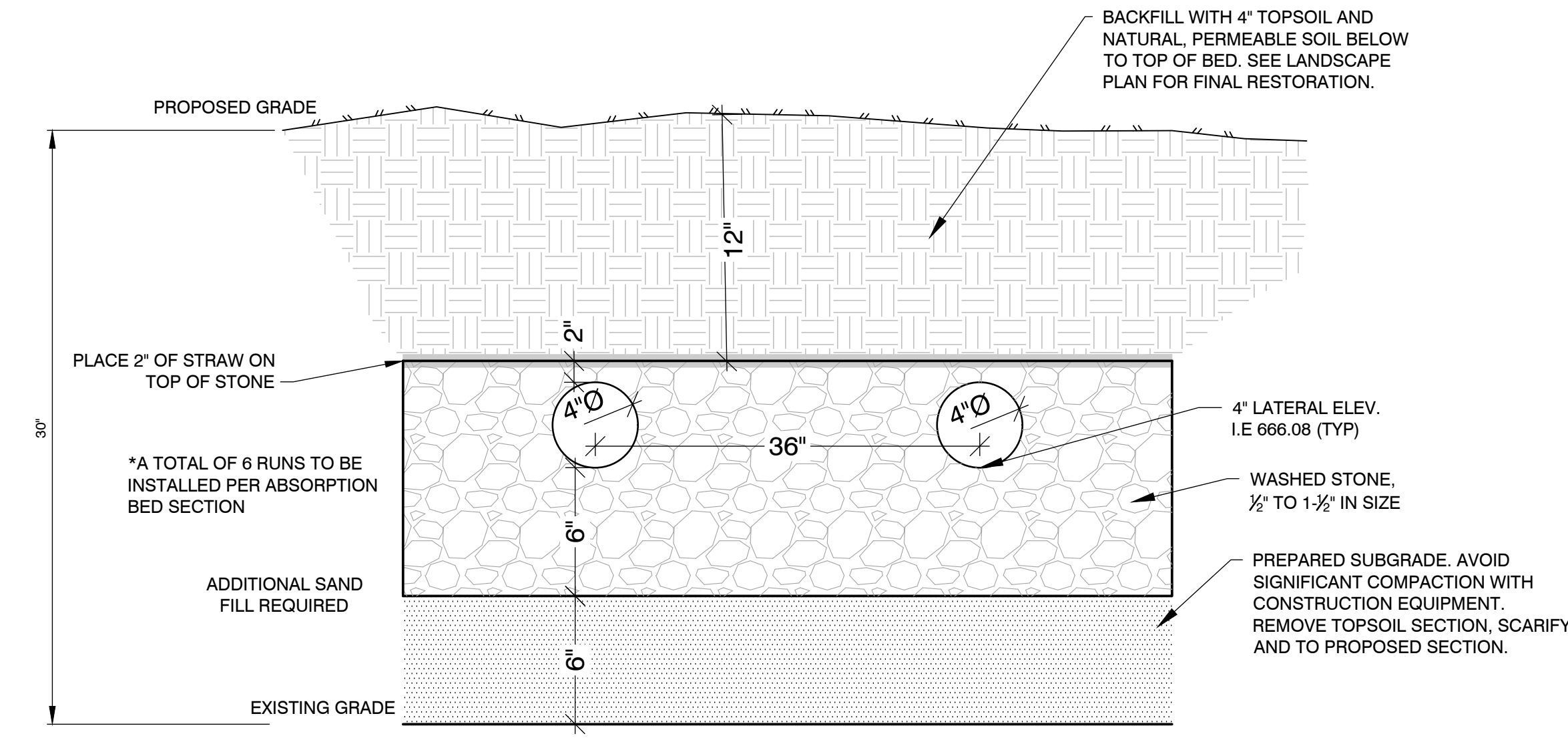
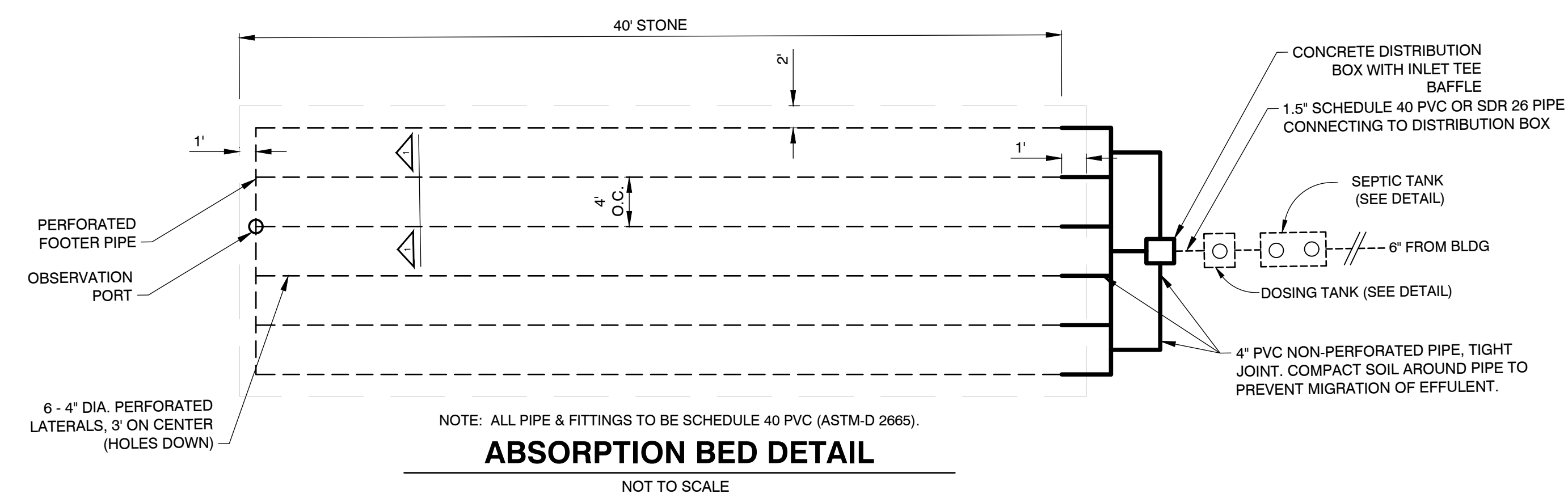
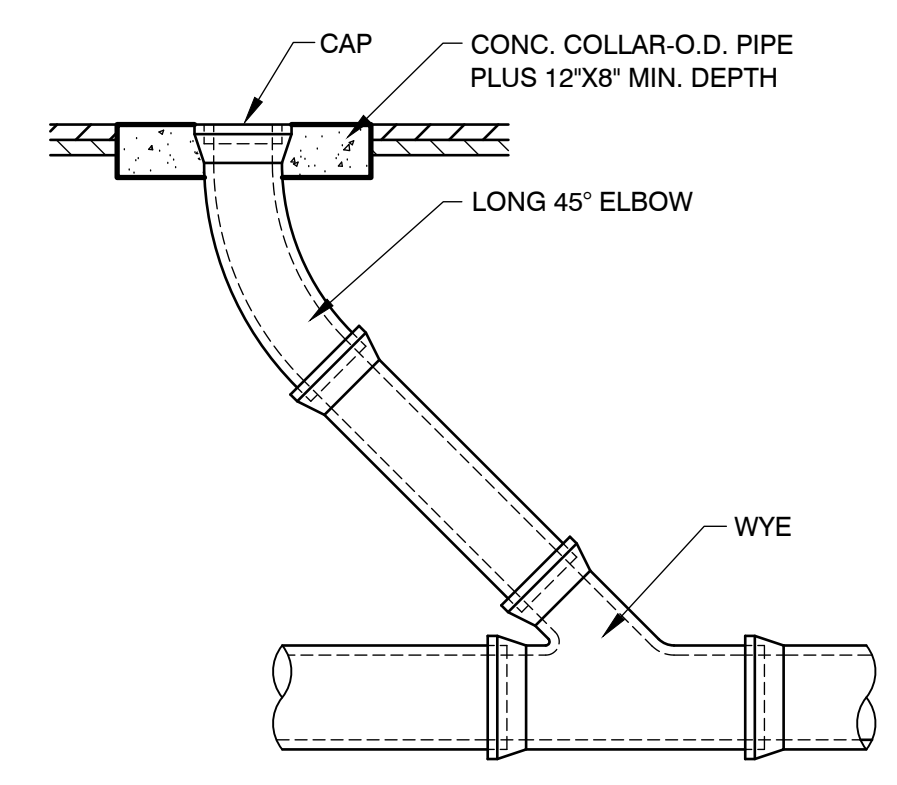
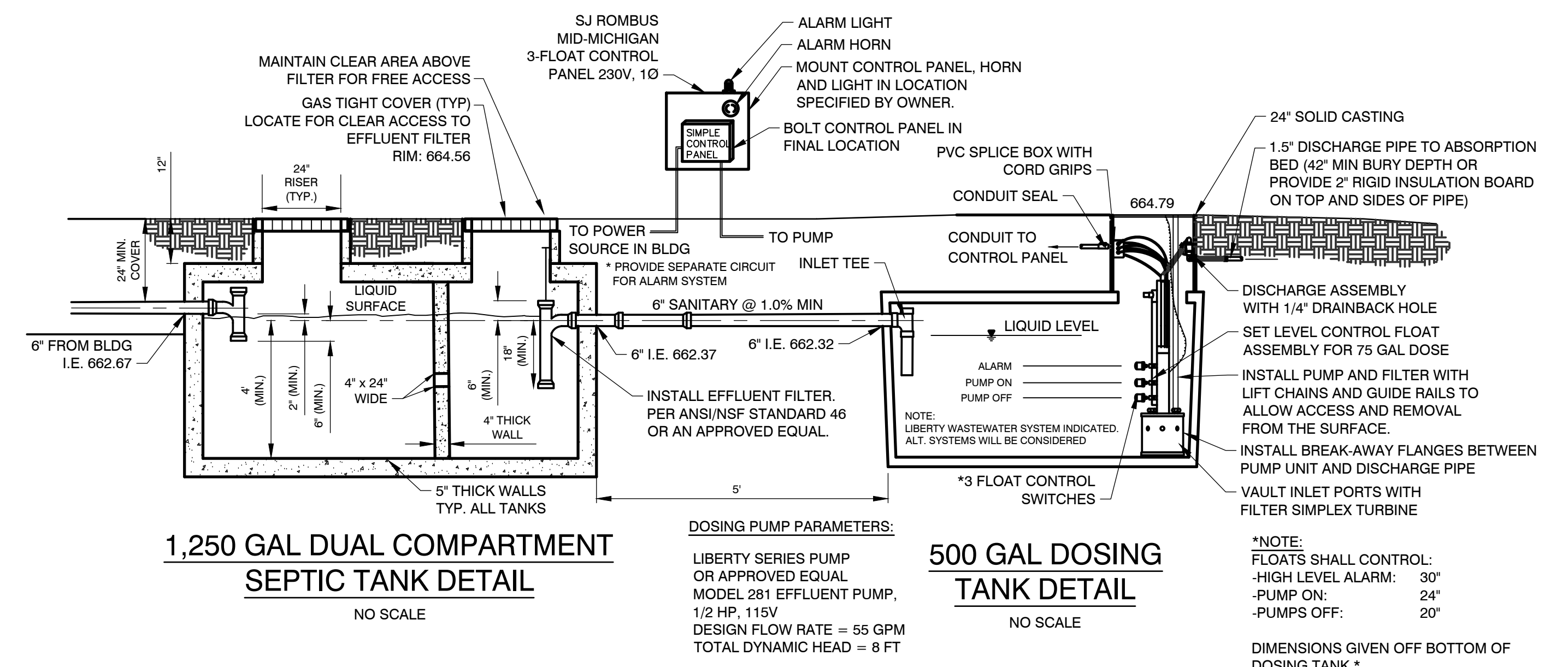
SHEET TITLE:
PROJECT:
CLIENT:

JOB NUMBER
2012059
DATE
05/10/2021

SHEET NUMBER
C3.0



SEPTIC SYSTEM INSTALLATION SHALL MEET SAGINAW COUNTY HEALTH DEPARTMENT STANDARDS AND PERMIT #21-NC071S CONTACT HEALTH DEPARTMENT FOR THE REQUIRED INSPECTIONS PER THE PERMIT.



PLANS PREPARED BY:

Civil Engineers & Surveying
MICHIGAN | INDIANA | ILLINOIS | OHIO
268.217.8752 PHONE | 866.89.0604 FAX
www.arengineeringllc.com

DRAWN: sw
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No. 61082

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SHEET TITLE: SEPTIC DETAILS
PROJECT: LOTHROP DOLLAR GENERAL
CLIENT: ZAREMBA GROUP, LLC

JOB NUMBER: 2012059
DATE: 05/10/2021

SHEET NUMBER: C3.1

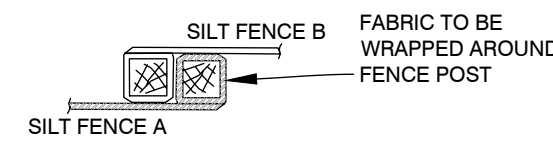
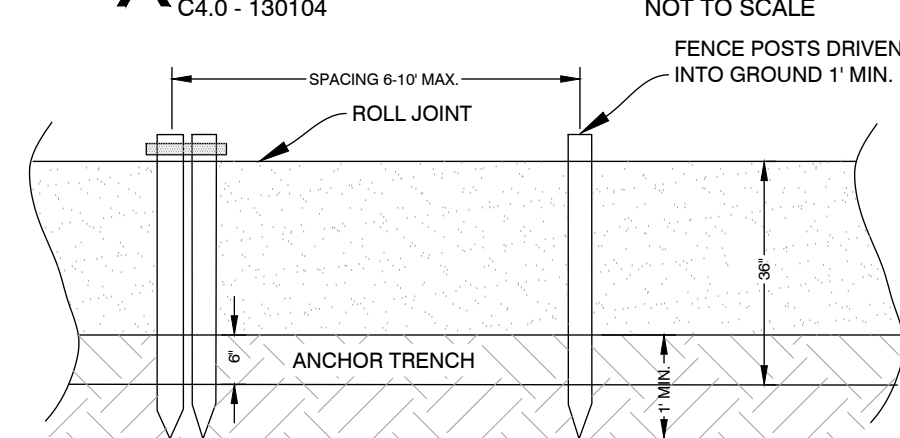
GRADING NOTES

1. ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT TIME OF CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PERMIT COSTS, TAP FEES, METER DEPOSITS, PERMANENT UTILITY APPLICATIONS, BONDS, AND OTHER FEES REQUIRED FOR PROPOSED WORK. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO THOSE REQUIRED BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION.
3. CONTACT MISS DIG '811' FOR LOCATION OF UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING EXCAVATION WORK. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO ARE NOT PART OF THE 'MISS DIG' ALERT SYSTEM. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
4. DEMOLISH & REMOVE ALL EXISTING SITE FEATURES AS REQUIRED.
5. MATCH EXISTING GRADES AROUND PERIMETER WITH SLOPES AS SHOWN.
6. ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT GRADES AT EDGE OF METAL (EOM) UNLESS OTHERWISE NOTED.
7. ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO MASS GRADING.
8. ALL EARTHWORK SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND GEOTECHNICAL REPORT PREPARED BY TTL ASSOCIATES INC.
9. ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
10. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID TRACKING SOIL ONTO ADJACENT ROADWAYS. CONTRACTOR SHALL SWEEP IMMEDIATELY IF OCCURS.
11. ANY DISTURBED AREA WHICH WILL BE LEFT UNWORKED 15 DAYS OR LONGER MUST BE SEEDED TO ESTABLISH VEGETATION FOR TEMPORARY STABILIZATION. BASINS TO BE SEEDED AND MULCH BLANKETS APPLIED IMMEDIATELY TO PROVIDE A STABLE BASE AND AVOID EXCESSIVE EROSION.

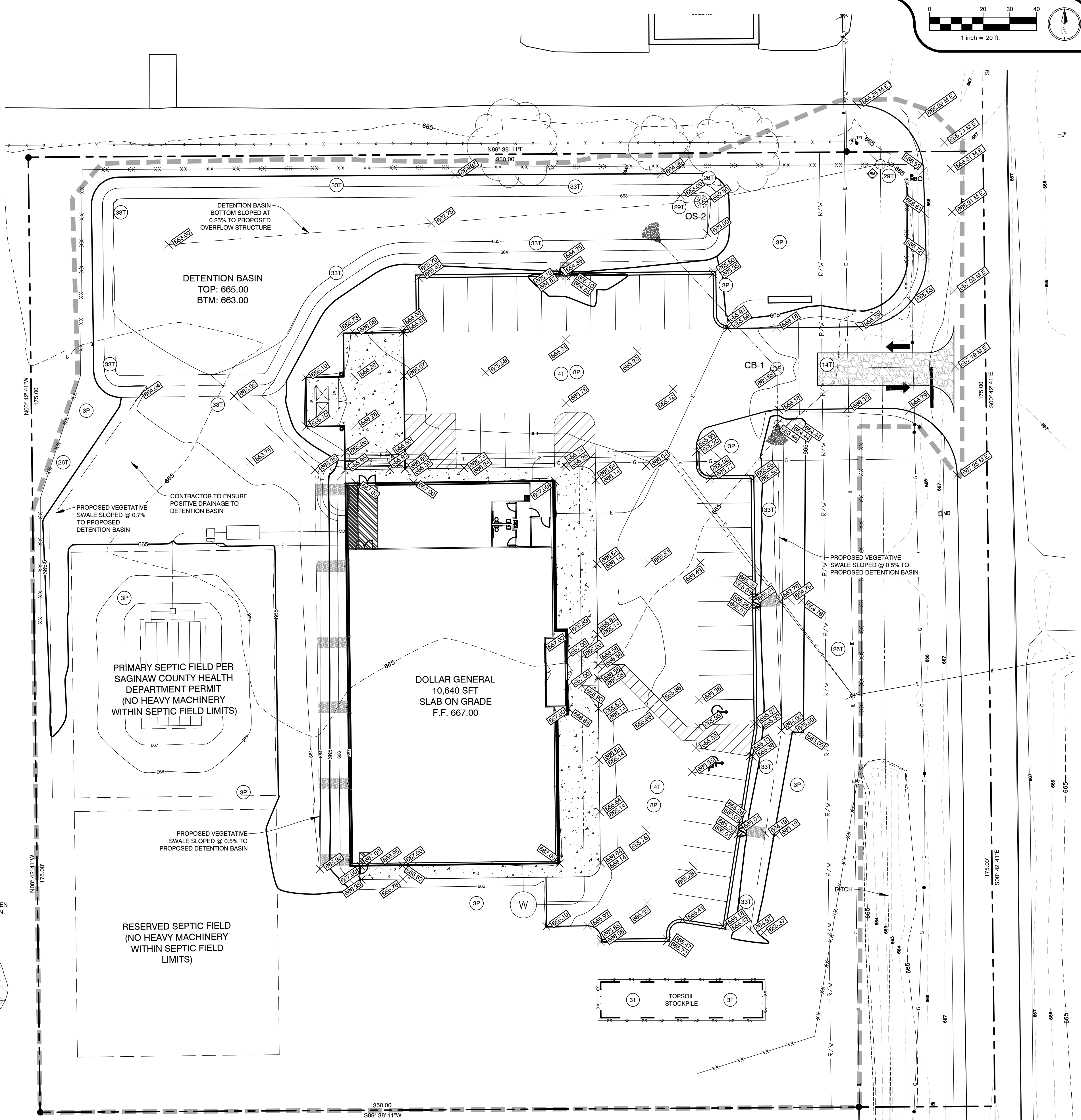
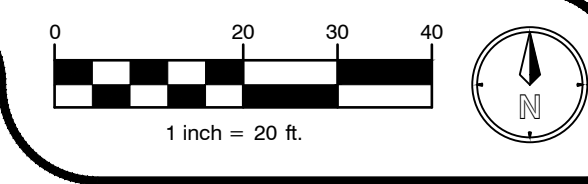
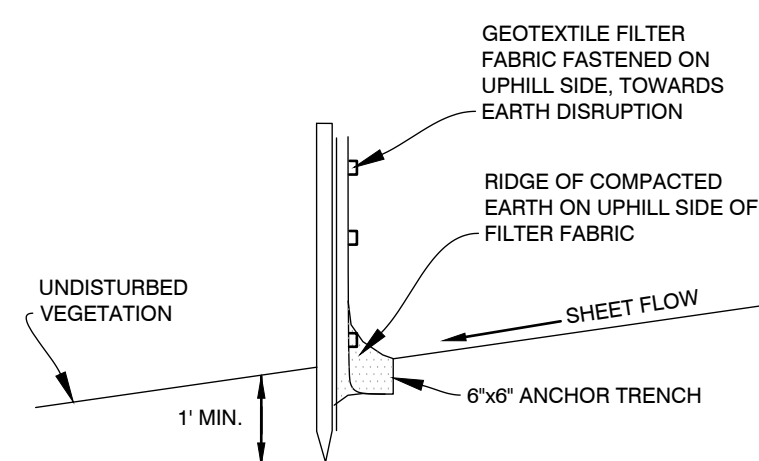
SOIL EROSION & SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION METHODS SHALL BE DONE IN COMPLIANCE WITH MDOT-EGLE. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE GOVERNING AUTHORITY AND A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM THE GOVERNING AUTHORITY, IF APPLICABLE. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE "SOIL EROSION PERMIT" AND FOR ALL CERTIFIED STORM WATER INSPECTION SERVICE REQUIRED BY THE "PERMIT BY RULE". EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND SHALL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
 2. AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER. THESE COVER AREAS ACT AS SEDIMENT FILTERS.
 3. ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
 4. GEOTEXTILE SILT FENCE SHALL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSEWHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING SHALL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
 5. MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.
- ## ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PER MDOT STANDARD DETAILS. "P" DENOTES PERMANENT MEASURE AND "T" DENOTES TEMPORARY MEASURE. SOIL EROSION CONTROL PLANS DENOTE MINIMUM EROSION MEASURES REQUIRED AS DESCRIBED BELOW.
- 3P DENOTES PERMANENT SEEDING. ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED. PLACE TOPSOIL SURFACE, SALV. 3 INCH, MDOT SEEDING MIXTURE TOP APPLIED AT A RATE OF 220 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL.A APPLIED AT A RATE OF 228 LB/ACRE, MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING. (APPLIES TO ENTIRE PROJECT)
- 3T DENOTES TEMPORARY SEEDING. TEMPORARY SEEDING SHALL BE PLACED AT LOCATIONS DETERMINED BY THE ENGINEER IN THE FIELD AND SHALL INCLUDE CEREAL RYE SEED APPLIED AT A RATE OF 70 LB/ACRE AND MULCH.
- 4T DENOTES DUST CONTROL. DUST CONTROL MAY BE REQUIRED ON THE SUBGRADE CONSTRUCTION AND WILL INCLUDE APPLYING FRESH WATER TO BE INCLUDED IN THE ITEM OF EMBANKMENT. DUST CONTROL ON THE AGGREGATE BASE COURSE WILL BE ACCOMPLISHED BY APPLYING FRESH WATER (INCLUDED IN THE ITEM OF AGGREGATE BASE, 6 INCH) AND APPLYING DUST PALLIATIVE, APPLIED, CACL₂ (TON) AS DIRECTED BY THE PROJECT ENGINEER.
- 8P DENOTES AGGREGATE COVER/PERMANENT PAVEMENT RESTORATION
- 4AT DENOTES GRAVEL ACCESS APPROACH. APPROACH SHALL BE INSTALLED TO PROVIDE STABLE ACCESS TO ROADWAYS AND MINIMIZE DUST AND TRACKING OF MATERIALS ONTO PUBLIC STREETS AND HIGHWAYS. THE APPROACH SHALL BE A MINIMUM OF 12' WIDE, 6" DEEP, AND CONSIST OF 2"-4" AGGREGATE.
- 29T DENOTES TEMPORARY SILT FENCE. SILT FENCE SHALL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE SHALL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- 29T DENOTES INLET PROTECTION FABRIC DROP. SHALL BE INSTALLED AT EXISTING AND PROPOSED STORM SEWER INLETS TO PROVIDE SETTLING AND FILTERING OF SILT LADEN WATER PRIOR TO ENTRY INTO THE DRAINAGE SYSTEM.
- 33T DENOTES MULCH BLANKET OR MATTING. SHALL BE NORTH AMERICAN GREEN DS150, OR APPROVED EQUAL. MULCH BLANKETS SHALL BE PLACED ON ALL 1:3 SLOPES OR GREATER, IN AND AROUND DITCH BOTTOMS WHERE THERE IS NO BIOSWALE BY CONTRACTOR RESPONSIBLE FOR RESTORING THAT AREA.

36" SILT FENCE DETAIL
C4.0 - 130104 NOT TO SCALE



ROLL JOINTS



LEGEND

- LIMITS OF CONSTRUCTION
- x-x- SILT FENCE

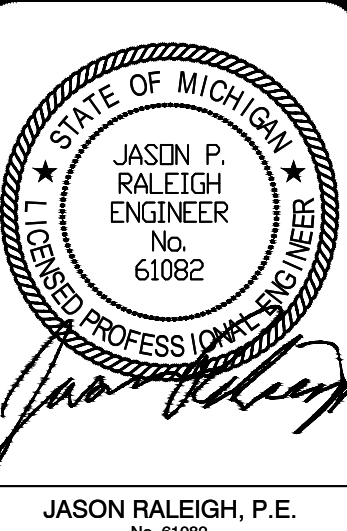


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PLANS PREPARED BY:



DRAWN: sw
CHECKED: WLP



JASON RALEIGH, P.E.
No. 61082

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GRADING - SESC PLAN
LOTHROP DOLLAR GENERAL
ZAREMBA GROUP, LLC

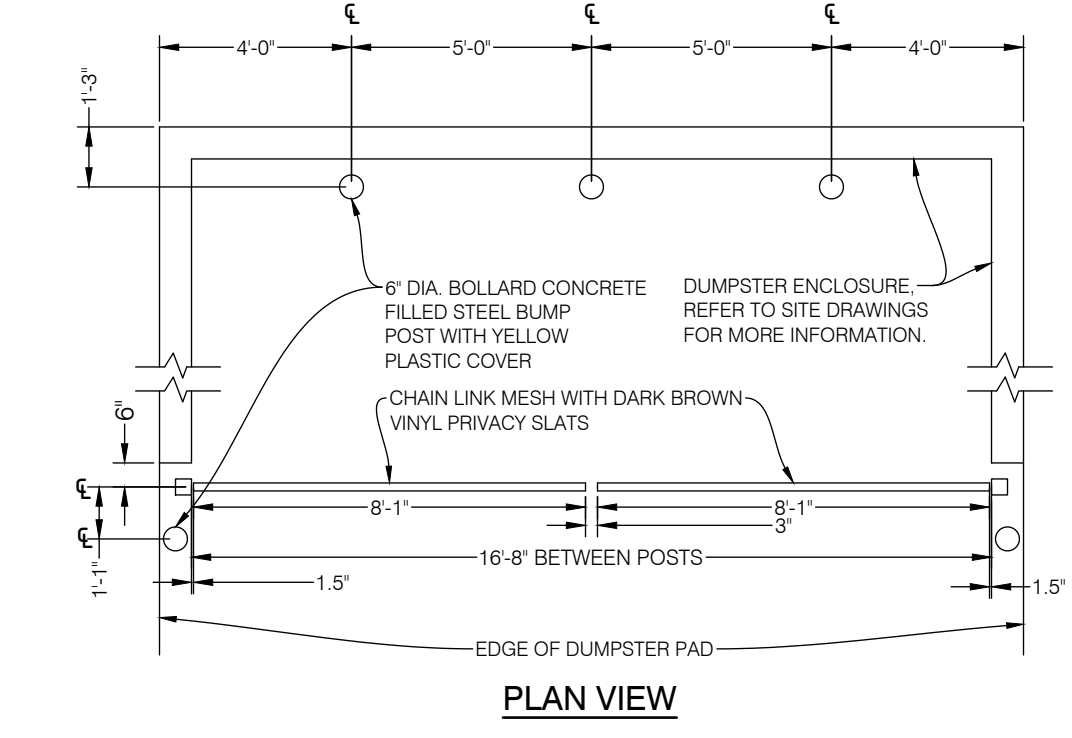
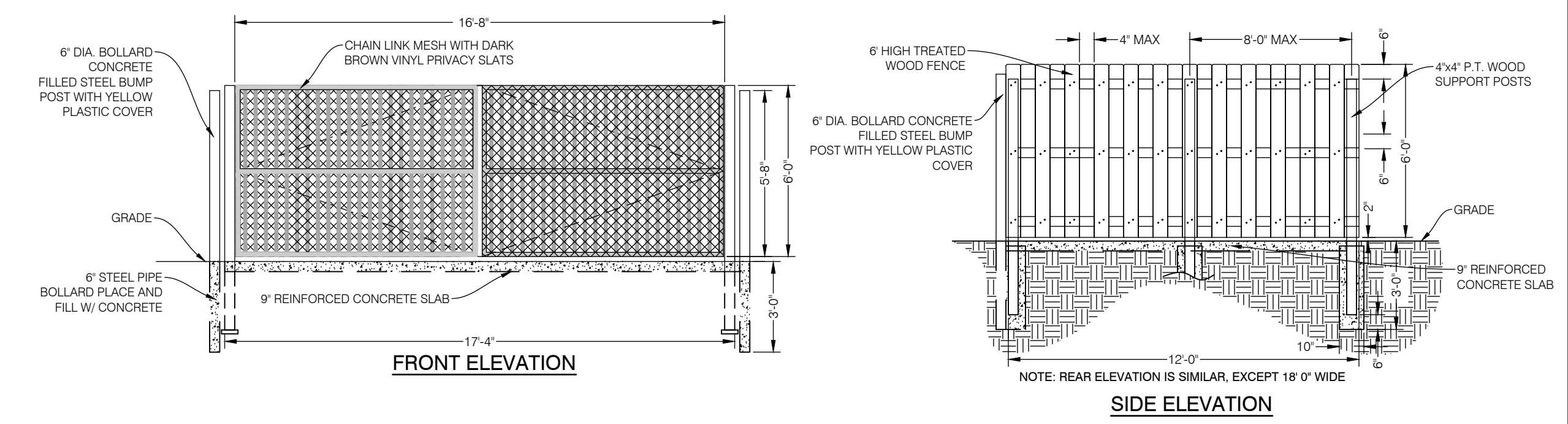
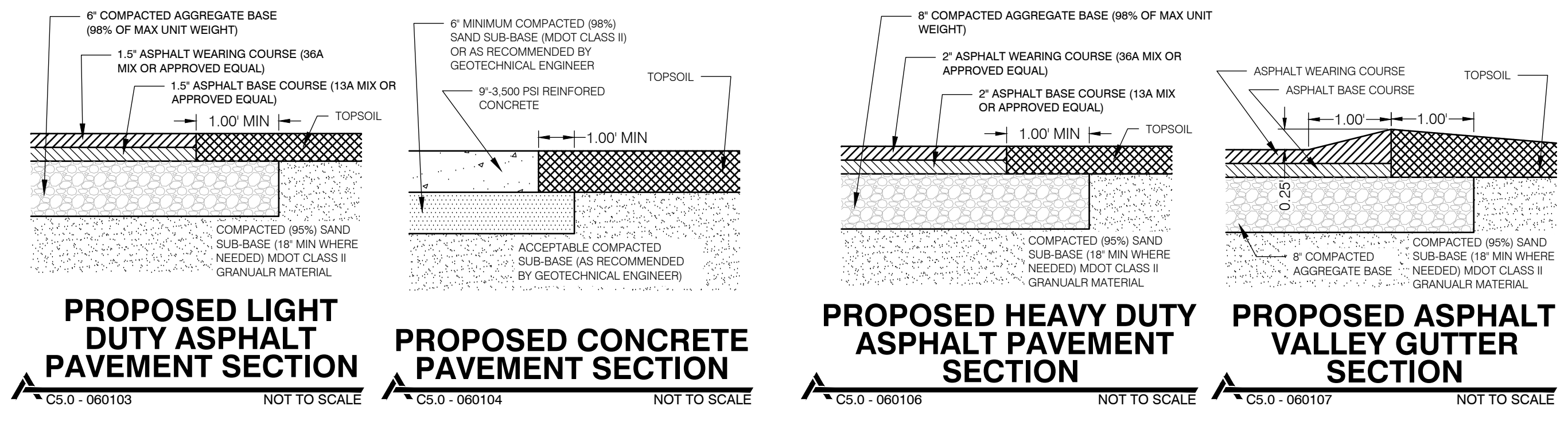
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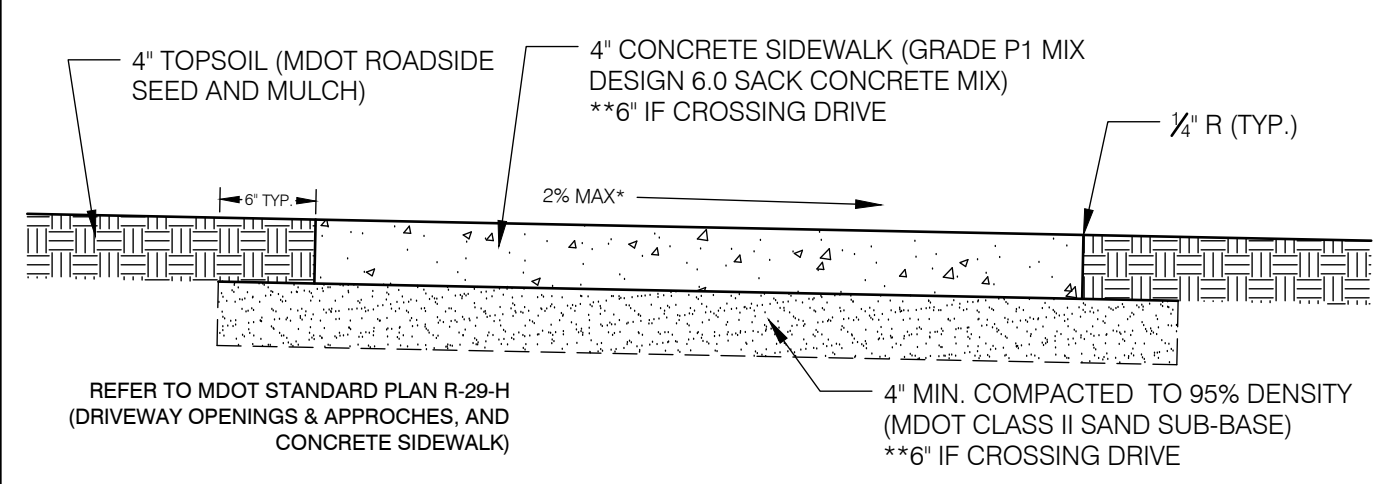
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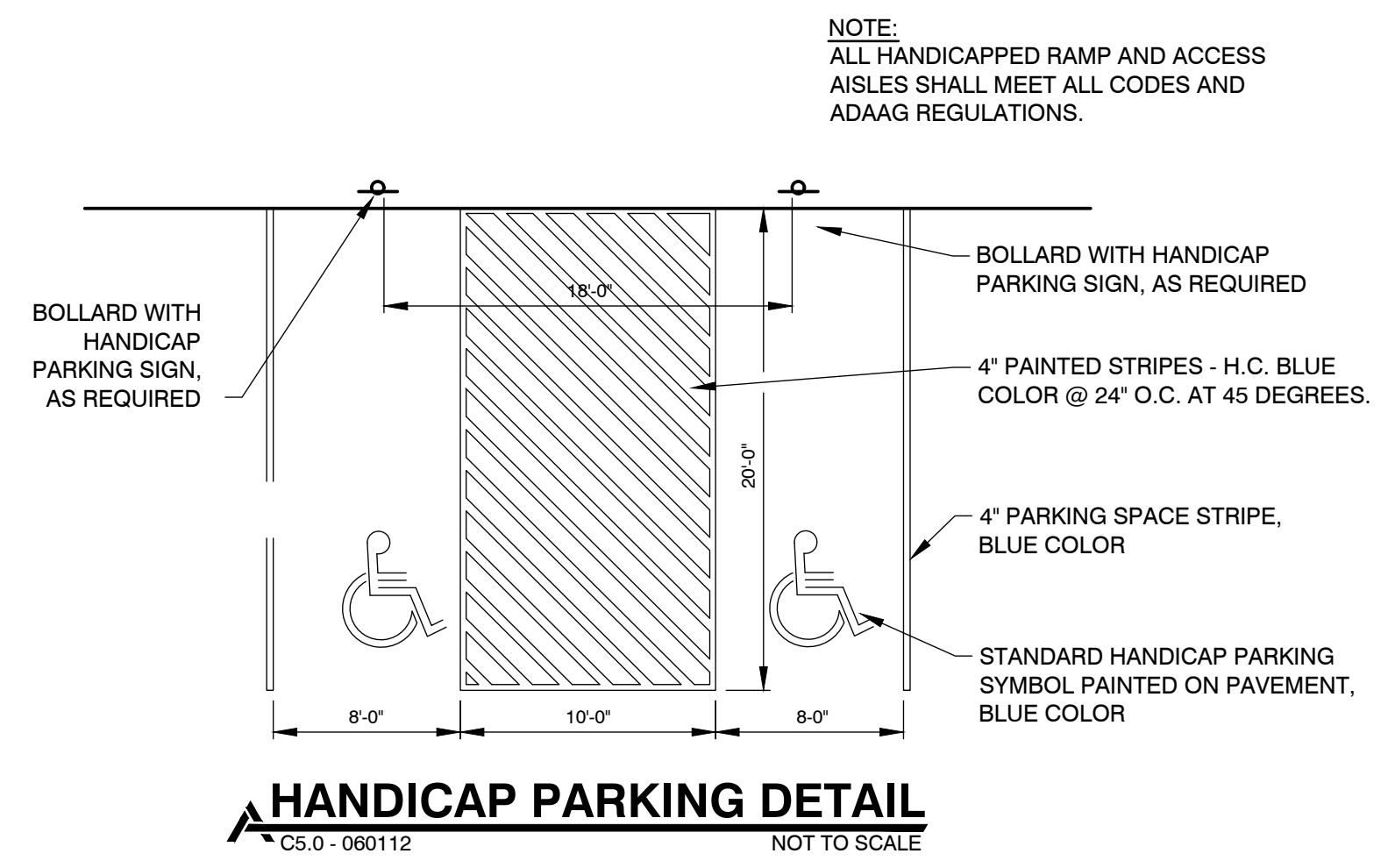
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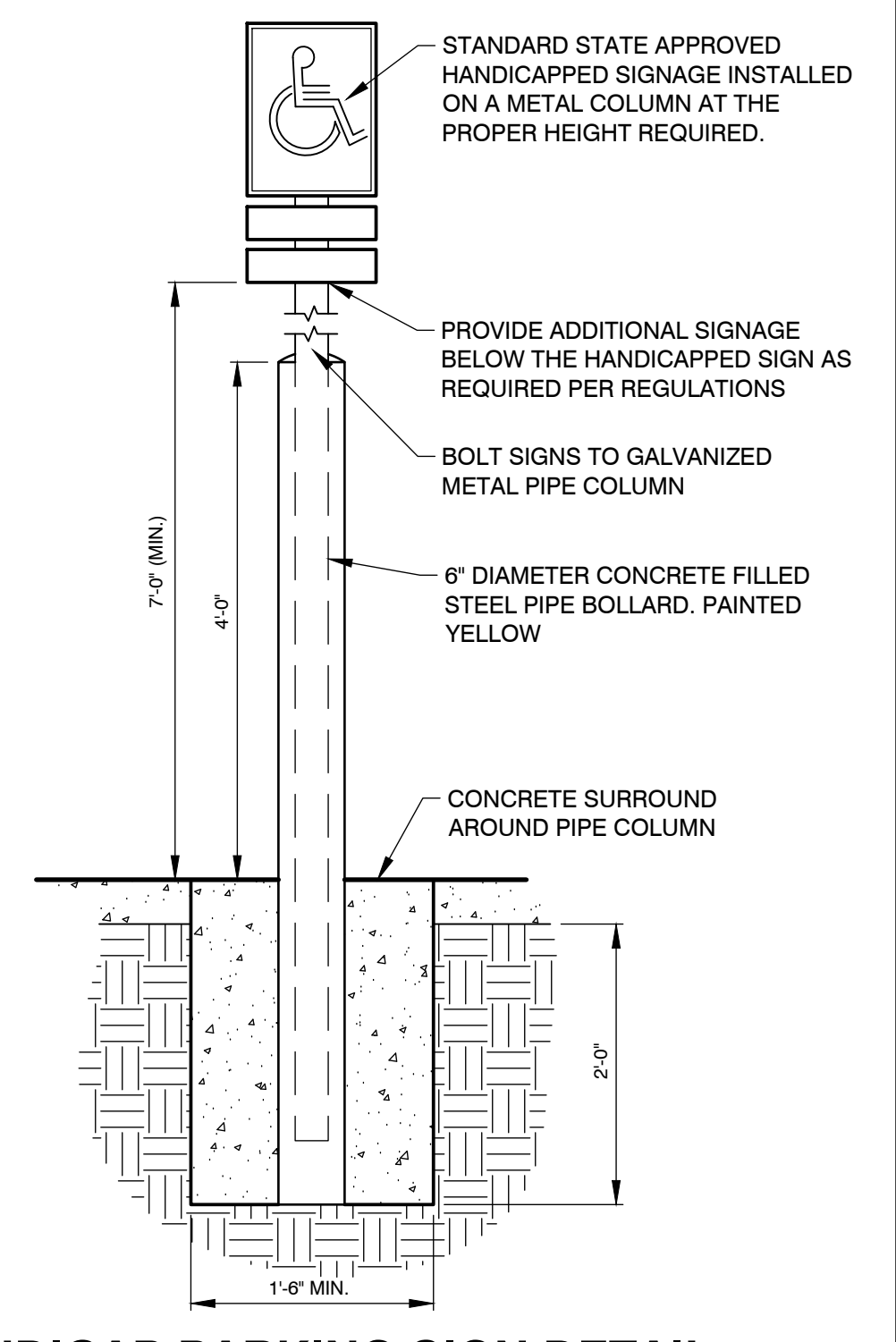
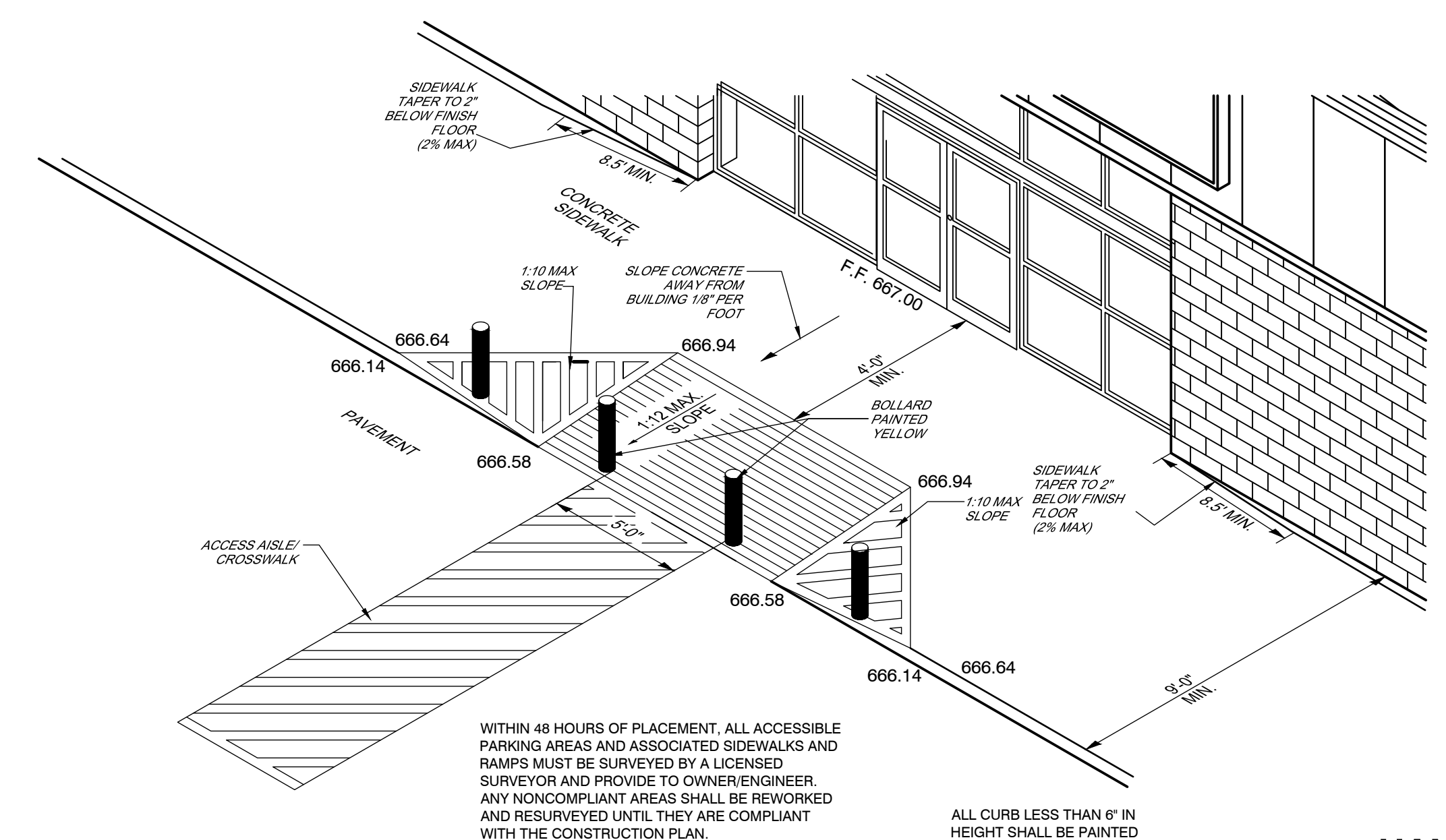
DUMPSTER ENCLOSURE DETAIL
C5.0 - 060109 NOT TO SCALE



*TRANSVERSE SIDEWALKS SLOPES ARE 2% MAXIMUM. IF THE TRANSVERSE SLOPE IS REQUIRED TO BE LESS THAN 1.5%, IN ORDER TO MEET SITE CONDITIONS, LONGITUDINAL DRAINAGE MUST BE PROVIDED.



NOTE: ALL HANDICAPPED RAMP AND ACCESS AISLES SHALL MEET ALL CODES AND ADAAG REGULATIONS.



SHEET TITLE: DETAILS
PROJECT: LOTHROP DOLLAR GENERAL
CLIENT: ZAREMBA GROUP, LLC

JOB NUMBER: 2012059
DATE: 05/10/2021

SHEET NUMBER: C5.0

Symbol	Qty	Label	Description	Arrangement	LLF	Lum. Watts	Total Watts	Lum. Lumens	MH
W	4	WPR3-UNVL-30-4-50-BZ	Wall Pack 37.1W 4701 Lumens 5000K Bronze	SINGLE	0.963	30	120	4616	12'
P	2	QDXLR-150-50-UNVL-1-3-N-Z5	Pole Single - Dorado XLR 19115lm 148W 120-277V 5000K	SINGLE	0.963	148.6	297.2	20790	20'
P	1	QDXLR-150-50-UNVL-1-3-N-Z5	Pole Double - Dorado XLR 19115lm 148W 120-277V 5000K	2 @ 15	0.963	148.6	297.2	20790	20'
W	4	WPR3-UNVL-100-4-50-BZ	Wall Pack 100W 14007 Lumens 5000K Bronze	SINGLE	0.963	104.5	418	14005	16.5'

Calculation Summary @ GRADE - Calculation Points = 10'x10'		Units	Avg	Max	Min	Avg/Min	Max/Min
Label	CalcType	Fc	1.16	23.5	0.0	N.A.	N.A.
ground_Planar	Illuminance	Fc					



DoradoXLE

Exterior LED Pole and Area Luminaire

For exterior pole and area lighting applications in new construction or retrofit opportunities, US LED brings the DoradoXLE. The DoradoXLE offers an array of options to accommodate any pole or area lighting requirement, including an assortment of light distributions, mounting methods and luminaire finishes. The DoradoXLE is designed to be oriented either vertical or horizontal, thus increasing its adaptability and functionality on any project.



Features

- Slip-fitter, pole mount and trunnion mount options available
- Light distribution patterns: Type 3 & Type 5
- Option for use as an area light or on a pole in parking lot applications
- Flux options ranging from 13,000 to 39,000 lumens
- Easy, one man installation
- 10-year warranty

Certifications

- ETL Listed for US and Canada
- DLC Premium Listed



Specifications

Spec Type	1-Light Engine	2-Light Engines
Dimensions	13" x 12.25" x 2.7"	20.9" x 12.7" x 3.7"
Units/Carion	1	1
Net Weight (lbs.)	10.5	13
Environmental Rating	Wet	Wet
EPA Rating	1.70	2.24

Mount Ordering Information

Series ³	Color
DYS1 - Slip-fitter Mount for 2 3/4" Round Tenon	1 - Bronze ²
DYF1 - Arm Mount - Flat	2 - White ²
DYRA ⁴ - Round Pole Adapter for 4" Pole	
DYT1 - Trunnion Mount	

Example: DYS1-1

QubeFlood4

2-Qube Flood Light Fixture

Description

For exterior flood lighting applications in new construction or retrofit opportunities, US LED brings the QubeFlood4. The QubeFlood4 flood luminaire offers an extensive array of options to accommodate any flood lighting requirement, including an assortment of light distributions, mounting methods, on-board controls and luminaire finishes. The QubeFlood4 is designed to be oriented either vertical or horizontal, thus increasing its adaptability and functionality on any project.



Features

- Slip-fitter, pole mount and trunnion mount options available
- Type 2, 5 and lambertian light distribution pattern
- Flux options ranging from 8,250 lumens to 16,500 lumens available
- 5-year warranty

Certifications

- UL Listed for US and Canada (# E338791)
- DesignLights Consortium[®] qualified (Premium)
- Except fixture QF4-x-UNVL-2-50-150



Specifications

Dimensions (in)	14.25" x 14.25" x 3.75"
Units / Carion	1
Net Weight	11 lbs
Environmental Rating	Wet

Energy Data

Input Voltage (VAC)	120-277
Color Temperature (K)	5000K
Color Rendering Index (CRI)	90 min
L70 Calculated Life (hr)	100,000
L80 Calculated Life (hr)	80,000
Operating Temp (°C)	-40 to 40

Variables

	650mA	800mA	1000mA	1200mA	1400mA	1500mA
System Level Power (W)	65	79	112	132	151	165
Delivered Lumens (lm)	8,250	9,580	11,650	13,650	15,700	16,500
System Efficacy (lm/W)	126	126	122	122	122	118
Part Number	QF4-1-UNVL-2-50-65	QF4-1-UNVL-2-50-80	QF4-1-UNVL-2-50-100	QF4-1-UNVL-2-50-120	QF4-1-UNVL-2-50-140	QF4-1-UNVL-2-50-150

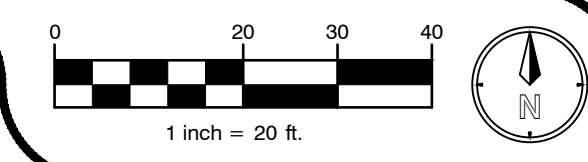
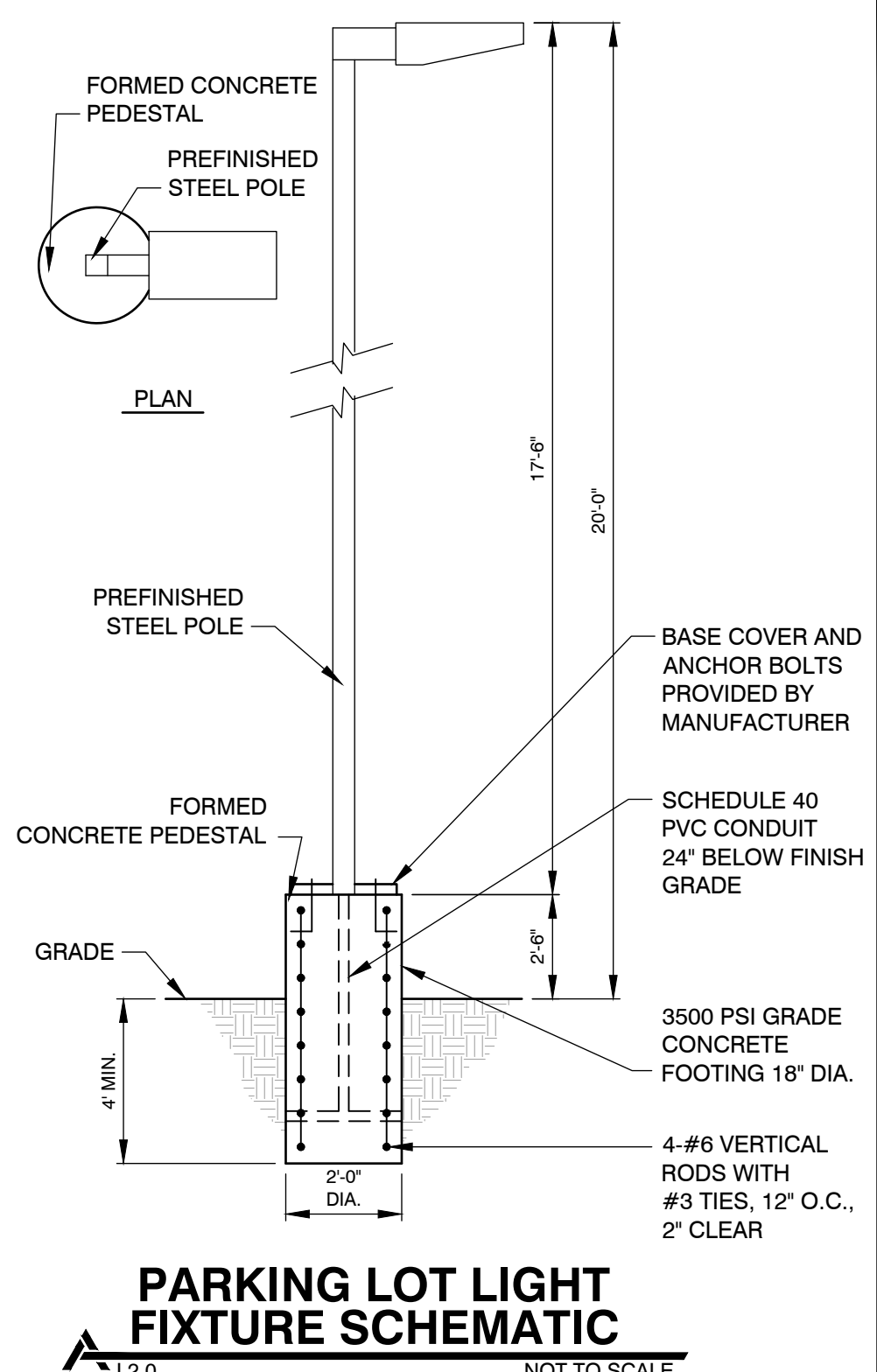
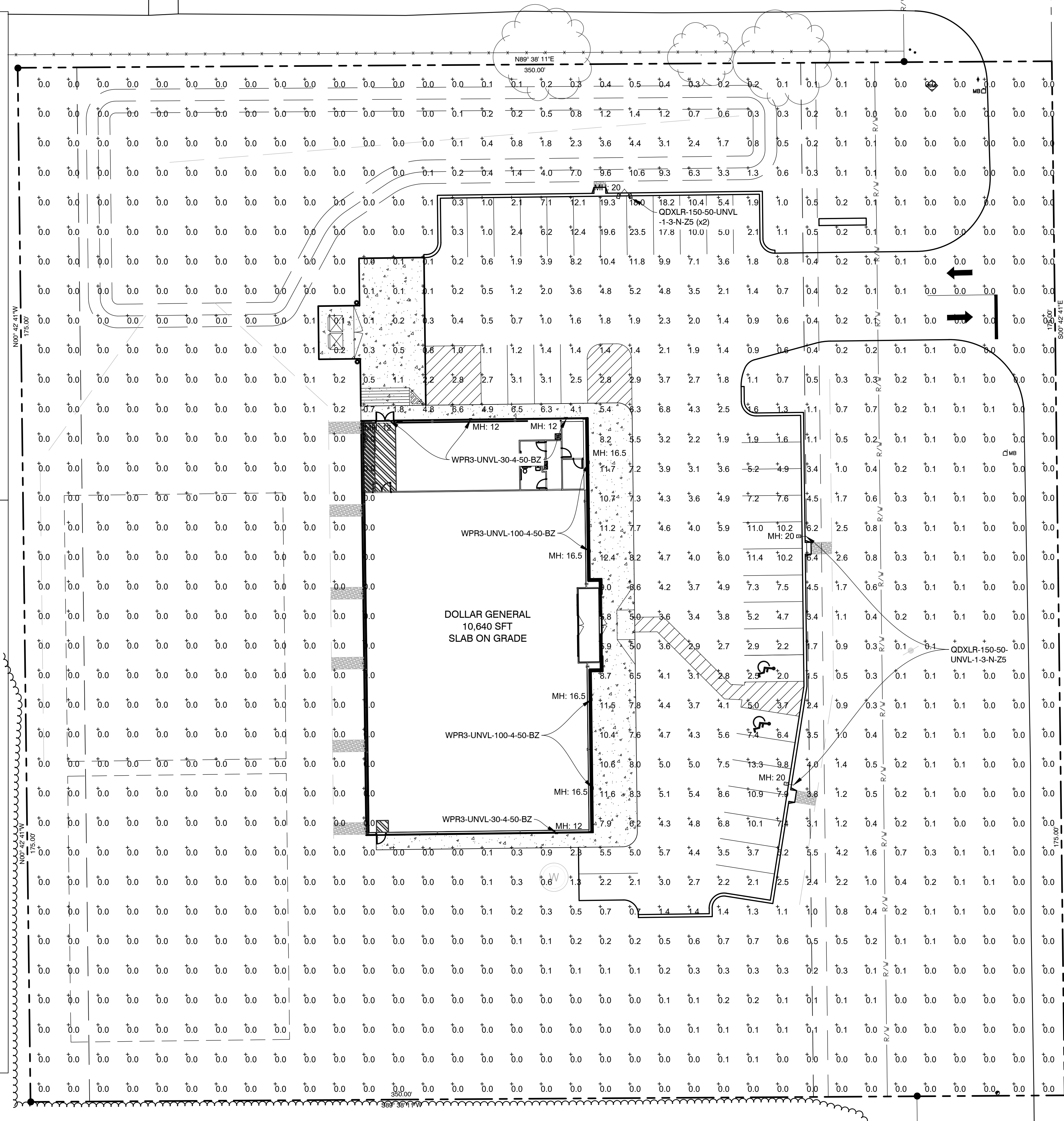
Fixture Ordering Information

Series	Color	Voltage	Light Dist Pattern	Color Temp	Current
QF4	1 Bronze	UNVL 120-277	2 Type 2	50 5000K	65 650mA
	2 White T	UNVH 347-480	5 Type 5		80 800mA
	3 Black T		12 Lambertian		100 1000mA
					120 1200mA
					140 1400mA
					150 1500mA



UPDATED 09/16/2021
Specifications and dimensions subject to change without notice.
US LED | 6807 PORTWEST DRIVE | HOUSTON, TX 77024 | T 866 972 9353 | F 713 972 9393 | WWW.USLED.COM

US LED | 6807 PORTWEST DRIVE | HOUSTON, TX 77024 | T 713 972 9191 | F 713 972 9393 | www.usled.com



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DRAWN: sw
CHECKED: WLP

NO.	ISSUED FOR:	DATE	BY
0	SITE PLAN REVIEW	03/04/21	wlp
1	SITE PLAN RESUBMITTAL	05/10/21	wlp
2			
3			
4			

PHOTOMETRIC PLAN
LOTHROP DOLLAR GENERAL
ZAREMBA GROUP, LLC

SHEET TITLE:
PROJECT:
CLIENT:

JOB NUMBER
2012059

DATE
05/10/2021

SHEET NUMBER
L2.0



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